

IIIIIIIIII	NNN	NNN	PPPPPPPPPP	SSSSSSSSSS	MMM	MMM	BBBBBBBBBB			
IIIIIIIIII	NNN	NNN	PPPPPPPPPP	SSSSSSSSSS	MMM	MMM	BBBBBBBBBB			
IIIIIIIIII	NNN	NNN	PPPPPPPPPP	SSSSSSSSSS	MMM	MMM	BBBBBBBBBB			
III	NNN	NNN	PPP	PPP	SSS	MMMMMM	MMMMMM	BBB	BBB	
III	NNN	NNN	PPP	PPP	SSS	MMMMMM	MMMMMM	BBB	BBB	
III	NNN	NNN	PPP	PPP	SSS	MMMMMM	MMMMMM	BBB	BBB	
III	NNNNNN	NNN	PPP	PPP	SSS	MMM	MMM	MMM	BBB	BBB
III	NNNNNN	NNN	PPP	PPP	SSS	MMM	MMM	MMM	BBB	BBB
III	NNNNNN	NNN	PPP	PPP	SSS	MMM	MMM	MMM	BBB	BBB
III	NNN	NNN	PPPPPPPPPP	SSSSSSSS	MMM	MMM	MMMMBBBB	MMMM	BBB	BBB
III	NNN	NNN	PPPPPPPPPP	SSSSSSSS	MMM	MMM	BBBBBBBBBB	MMM	BBB	BBB
III	NNN	NNN	PPPPPPPPPP	SSSSSSSS	MMM	MMM	BBBBBBBBBB	MMM	BBB	BBB
III	NNN	NNNNNN	PPP	SSS	MMM	MMM	BBB	MMM	BBB	BBB
III	NNN	NNNNNN	PPP	SSS	MMM	MMM	BBB	MMM	BBB	BBB
III	NNN	NNNNNN	PPP	SSS	MMM	MMM	BBB	MMM	BBB	BBB
III	NNN	NNN	PPP	SSS	MMM	MMM	BBB	MMM	BBB	BBB
III	NNN	NNN	PPP	SSS	MMM	MMM	BBB	MMM	BBB	BBB
IIIIIIIIII	NNN	NNN	PPP	SSSSSSSSSS	MMM	MMM	BBBBBBBBBB	MMM	BBB	BBB
IIIIIIIIII	NNN	NNN	PPP	SSSSSSSSSS	MMM	MMM	BBBBBBBBBB	MMM	BBB	BBB
IIIIIIIIII	NNN	NNN	PPP	SSSSSSSSSS	MMM	MMM	BBBBBBBBBB	MMM	BBB	BBB

```
IIIIII  NN  NN  PPPPPPP  SSSSSSSS  MM  MM  BBBB8888
IIIIII  NN  NN  PPPPPPP  SSSSSSSS  MM  MM  BBBB8888
II      NN  NN  PP      PP  SS      MMMM  MMMM  BB      BB
II      NN  NN  PP      PP  SS      MMMM  MMMM  BB      BB
II      NNNN  NN  PP      PP  SS      MM  MM  BB      BB
II      NNNN  NN  PP      PP  SS      MM  MM  BB      BB
II      NN  NN  PPPPPPP  SSSSSS  MM  MM  BBBB8888
II      NN  NN  PPPPPPP  SSSSSS  MM  MM  BBBB8888
II      NN  NNNN  PP      SS      MM  MM  BB      BB
II      NN  NNNN  PP      SS      MM  MM  BB      BB
II      NN  NN  PP      SS      MM  MM  BB      BB
II      NN  NN  PP      SS      MM  MM  BB      BB
IIIIII  NN  NN  PP      SSSSSSSS  MM  MM  BBBB8888
IIIIII  NN  NN  PP      SSSSSSSS  MM  MM  BBBB8888
```

```
LL      IIIIII  SSSSSSSS
LL      IIIIII  SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLLLL  IIIIII  SSSSSSSS
```


L 5
16-Sep-1984 01:43:25
14-Sep-1984 12:35:25VAX-11 Bliss-32 V4.0-742
[INPSMB.SRC]INPSMB.B32;1

```
1 0001 0 MODULE INPSMB (%TITLE 'Input symbiont'
2 0002 0 MAIN = INPSMB
3 0003 0 IDENT = 'V04-000'
4 0004 0 ) =
5 0005 1 BEGIN
6 0006 1
7 0007 1
8 0008 1 *****
9 0009 1 *
10 0010 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
11 0011 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
12 0012 1 * ALL RIGHTS RESERVED.
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25 0025 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
26 0026 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
27 0027 1 *
28 0028 1 *
29 0029 1 *****
30 0030 1
31 0031 1
32 0032 1 ++
33 0033 1 FACILITY:
34 0034 1 Input symbiont.
35 0035 1
36 0036 1 ABSTRACT:
37 0037 1 This is it.
38 0038 1
39 0039 1 ENVIRONMENT:
40 0040 1 VAX/VMS user mode.
41 0041 1 --
42 0042 1
43 0043 1 AUTHOR: M. Jack, CREATION DATE: 30-Apr-1982
44 0044 1
45 0045 1 MODIFIED BY:
46 0046 1
47 0047 1 V03-003 MLJ0115 Martin L. Jack, 29-Jul-1983 13:14
48 0048 1 Update for $SNDJBC file interface change.
49 0049 1
50 0050 1 V03-002 MLJ0113 Martin L. Jack, 26-May-1983 10:21
51 0051 1 Complete implementation.
52 0052 1
53 0053 1 V03-001 MLJ0112 Martin L. Jack, 29-Apr-1983 0:02
54 0054 1 Track SUBMIT enhancements and SJC name changes.
55 0055 1
56 0056 1 **
```

```
58 0057 1 LIBRARY 'SYSS$LIBRARY:LIB';
59 0058 1 LIBRARY 'SYSS$LIBRARY:TPAMAC';
60 0059 1 REQUIRE 'SHRLIB$:JBCPRSDEF';
61 0169 1
62 0170 1
63 0171 1 LITERAL
64 0172 1 TRUE= 1;
65 0173 1 FALSE= 0;
66 0174 1
67 0175 1
68 0176 1 STRUCTURE
69 0177 1 BBLOCK[O,P,S,E;N]=
70 0178 1 [N]
71 0179 1 (BBLOCK + 0)<P,S,E>;
72 0180 1
73 0181 1
74 0182 1 PSECT
75 0183 1 CODE= CODE,
76 0184 1 PLIT= CODE,
77 0185 1 OWN= DATA,
78 0186 1 GLOBAL= DATA;
79 0187 1
80 0188 1
81 0189 1 FORWARD ROUTINE
82 0190 1 INPSMB,
83 0191 1 PROCESSING_LOOP_HANDLER,
84 0192 1 PROCESSING_LOOP,
85 0193 1 GET_RECORD,
86 0194 1 IDENTIFY_COMMAND_VERB,
87 0195 1 GET_LINE_CONTINUATION,
88 0196 1 TIMER_AST: NOVALUE,
89 0197 1 FILE_ERROR: NOVALUE,
90 0198 1 MAIN_HANDLER_ACTION,
91 0199 1 MAI_HANDLER;
92 0200 1
93 0201 1
94 0202 1 EXTERNAL ROUTINE
95 0203 1 CLISDCL_PARSE: ADDRESSING_MODE(GENERAL),
96 0204 1 CLISGET_VALUE: ADDRESSING_MODE(GENERAL),
97 0205 1 CLISPRESENT: ADDRESSING_MODE(GENERAL),
98 0206 1 LGISVALIDATE: ADDRESSING_MODE(GENERAL),
99 0207 1 LIB$FREE1_DD: ADDRESSING_MODE(GENERAL),
100 0208 1 LIB$SIGNAL: ADDRESSING_MODE(GENERAL),
101 0209 1 LIB$TPARSE: ADDRESSING_MODE(GENERAL);
102 0210 1
103 0211 1
104 0212 1 EXTERNAL
105 0213 1 LIB$AB_UPCASE: ADDRESSING_MODE(GENERAL),
106 0214 1 INPSMBCLD; ! Command tables
107 0215 1
108 0216 1
109 0217 1 EXTERNAL LITERAL
110 0218 1 INPSMB$_FACILITY,
111 0219 1 INPSMB$_ENTFIL,
112 0220 1 INPSMB$_INVCONT,
113 0221 1 INPSMB$_INVLOGFIL,
114 0222 1 INPSMB$_INVPASS,
```



```
: 115      0223 1      INPSMB$_INVUSER,
: 116      0224 1      INPSMB$_JOBCARD,
: 117      0225 1      INPSMB$_MISSPASS,
: 118      0226 1      INPSMB$_OPENUAF,
: 119      0227 1      INPSMB$_USERVAL;
: 120
: 121      0228 1
: 122      0229 1
: 123      0230 1      OWN
: 124      0231 1      CARD_CHANNEL:  WORD,      | Channel to card reader
: 125      0232 1      INPUT_FAB:      $FAB_DECL,  | FAB for input
: 126      0233 1      INPUT_RAB:      $RAB_DECL,  | RAB for input
: 127      0234 1      INPUT_NAM:      $NAM_DECL,  | NAM block for input
: 128      0235 1      INPUT_RSA:      VECTOR[NAM$C_MAXRSS,BYTE], | Resultant string for input
: 129      0236 1      INPUT_UBF:      VECTOR[160,BYTE], | Record buffers
: 130      0237 1      OUTPUT_FAB:     $FAB_DECL,  | FAB for output
: 131      0238 1      OUTPUT_RAB:     $RAB_DECL,  | RAB for output
: 132      0239 1      OUTPUT_NAM:     $NAM_DECL,  | NAM block for output
: 133      0240 1      OUTPUT_XAB:     $XABPRO_DECL, | Protection XAB for output
: 134      0241 1      OUTPUT_RSA:     VECTOR[NAM$C_MAXRSS,BYTE], | Resultant string for output
: 135      0242 1      JOB_LENGTH,      | Length of JOB command
: 136      0243 1      JOB_BUFFER:      VECTOR[80,BYTE], | JOB command buffer
: 137      0244 1      PUTMSG_ACTION_ROUTINE, | Action routine for OPCOM or 0
: 138      0245 1      FLAGS:          BBLOCK[4],   | General flags
: 139      0246 1      INPUT_COMPLETIONS, | Cards since timer expired
: 140      0247 1      CARD_IOSB_A:     VECTOR[4,WORD], | First card IOSB
: 141      0248 1      CARD_IOSB_B:     VECTOR[4,WORD], | Second card IOSB
: 142      0249 1      VALUE_DESC:      BBLOCK[DSC$C_D-BLN], | Qualifier value
: 143      0250 1      LOG_FILE_DESC:    BBLOCK[DSC$C_D-BLN], | /LOG FILE descriptor
: 144      0251 1      NAME_DESC:       BBLOCK[DSC$C_D-BLN], | /NAME descriptor
: 145      0252 1      USERNAME_DESC:    BBLOCK[DSC$C_D-BLN], | Username descriptor
: 146      0253 1      PASSWORD_DESC:    BBLOCK[DSC$C_D-BLN], | Password descriptor
: 147      0254 1      CURRENT_COMMAND; | Current command
: 148
: 149      0255 1
: 150      0256 1      LITERAL
: 151      0257 1      K_NONE=          0,          | No significant command
: 152      0258 1      K_JOB=           1,          | JOB command
: 153      0259 1      K_EOJ=           3,          | EOJ command
: 154      0260 1      K_PASSWORD=       5,          | PASSWORD command
: 155      0261 1
: 156      0262 1
: 157      0263 1      LITERAL
: 158      0264 1      K_EFN_A=          1,          | EFN for first buffer
: 159      0265 1      K_EFN_B=          2,          | EFN for second buffer
: 160      0266 1
: 161      0267 1
: 162      0268 1      MACRO
: 163      0269 1      V_NO_LOG_FILE=     0,0,1,0 %, | /NOLOG specified
: 164      0270 1      V_SECOND_BUFFER=   0,1,1,0 %, | Second buffer has the read
: 165      0271 1      V_TRAILING_BLANKS= 0,2,1,0 %, | Leave trailing blanks
: 166      0272 1
: 167      0273 1
: 168      0274 1      BIND
: 169      0275 1      PERIODIC_INTERVAL = UPLIT(-150000000, -1); | 15 seconds
: 170      0276 1
: 171      0277 1      FORWARD
: 172      0278 1
: 173      0279 1
```



```

: 172      0280 1      DOLLAR_STATES:      VECTOR[0],
: 173      0281 1      DOLLAR_KEYS:      VECTOR[0],
: 174      0282 1      JOB_STATES:      VECTOR[0],
: 175      0283 1      JOB_KEYS:      VECTOR[0],
: 176      0284 1      EOJ_STATES:      VECTOR[0],
: 177      0285 1      EOJ_KEYS:      VECTOR[0],
: 178      0286 1      PASSWORD_STATES:      VECTOR[0],
: 179      0287 1      PASSWORD_KEYS:      VECTOR[0],
: 180      0288 1
: 181      0289 1
: 182      0290 1      MACRO
: 183      M 0291 1      SD[A]=
: 184      0292 1          BIND %NAME('D_', A) = $DESCRIPTOR(A) %;
: 185      0293 1
: 186      0294 1
: 187      P 0295 1      SD(
: 188      P 0296 1          'P1',
: 189      P 0297 1          'AFTER',
: 190      P 0298 1          'CHARACTERISTICS',
: 191      P 0299 1          'CLI',
: 192      P 0300 1          'CPU TIME',
: 193      P 0301 1          'DELETE',
: 194      P 0302 1          'HOLD',
: 195      P 0303 1          'KEEP',
: 196      P 0304 1          'LOG FILE',
: 197      P 0305 1          'NAME',
: 198      P 0306 1          'NOTIFY',
: 199      P 0307 1          'PARAMETERS',
: 200      P 0308 1          'PRINTER',
: 201      P 0309 1          'PRIORITY',
: 202      P 0310 1          'QUEUE',
: 203      P 0311 1          'RESTART',
: 204      P 0312 1          'TRAILING BLANKS',
: 205      P 0313 1          'WSDEFAULT',
: 206      P 0314 1          'WSEXTENT',
: 207      0315 1          'WSQUOTA');
: 208      0316 1
: 209      0317 1
: 210      0318 1      BUILTIN
: 211      0319 1          MOVTC,
: 212      0320 1          TESTBITCC;
```



```
214 0321 1 ROUTINE INPSMB=
215 0322 1
216 0323 1 !++
217 0324 1
218 0325 1 FUNCTIONAL DESCRIPTION:
219 0326 1 This routine is the main entry point for the input symbiont.
220 0327 1
221 0328 1 INPUT PARAMETERS:
222 0329 1 Standard activation parameters (not used).
223 0330 1
224 0331 1 IMPLICIT INPUTS:
225 0332 1 NONE
226 0333 1
227 0334 1 OUTPUT PARAMETERS:
228 0335 1 NONE
229 0336 1
230 0337 1 IMPLICIT OUTPUTS:
231 0338 1 NONE
232 0339 1
233 0340 1 ROUTINE VALUE:
234 0341 1 Completion status.
235 0342 1
236 0343 1 SIDE EFFECTS:
237 0344 1 NONE
238 0345 1
239 0346 1 --
240 0347 1
241 0348 2 BEGIN
242 0349 2 LOCAL
243 0350 2 DEVCLASS, Device class
244 0351 2 RSA_DESC: VECTOR[2], Descriptor for RSA
245 0352 2 DVI_DESC: VECTOR[2], Descriptor for DVI
246 0353 2 GETDVI_LIST: BBLOCK[28], $GETDVI item list
247 0354 2 IOSB: VECTOR[4,WORD], I/O status block
248 0355 2 STATUS_1, Status return
249 0356 2 STATUS_2, Status return
250 0357 2 STATUS_3, Status return
251 0358 2 BIND
252 0359 2 DEVICE_NAME = $DESCRIPTOR('SYSS$INPUT:'): BBLOCK;
253 0360 2 BUILTIN
254 0361 2 FP;
255 0362 2
256 0363 2
257 0364 2 ! Establish the condition handler.
258 0365 2
259 0366 2 .FP = MAIN_HANDLER;
260 0367 2
261 0368 2
262 0369 2 ! Initialize RMS structures for the input stream.
263 0370 2
264 P 0371 2 $FAB_INIT(FAB=INPUT_FAB,
265 P 0372 2 FAC=GET,
266 P 0373 2 FNA=UPLIT BYTE('SYSS$INPUT:'),
267 P 0374 2 FNS=%CHARCOUNT('SYSS$INPUT:'),
268 P 0375 2 FOP=$QO,
269 P 0376 2 NAM=INPUT_NAM);
270 P 0377 2 $RAB_INIT(RAB=INPUT_RAB,
```



```

271 P 0378 2 FAB=INPUT_FAB,
272 P 0379 2 ROP=RAH,
273 P 0380 2 UBF=INPUT_UBF,
274 0381 2 USZ=80);
275 P 0382 2 $NAM_INIT(NAM=INPUT_NAM,
276 P 0383 2 ESA=INPUT_RSA,
277 P 0384 2 ESS=NAM$C_MAXRSS,
278 P 0385 2 RSA=INPUT_RSA,
279 0386 2 RSS=NAM$C_MAXRSS);
280 0387 2
281 0388 2
282 0389 2 ! Get the physical device name of the input device.
283 0390 2
284 0391 2 $PARSE(FAB=INPUT_FAB);
285 0392 2 DVI_DESC[0] = CH$RCHAR(INPUT_NAM[NAM$T_DVI]);
286 0393 2 DVI_DESC[1] = INPUT_NAM[NAM$T_DVI]+1;
287 0394 2 RSA_DESC[0] = 0;
288 0395 2 RSA_DESC[1] = INPUT_RSA;
289 0396 2
290 0397 2
291 0398 2 ! Execute a $GETDVI on the physical device.
292 0399 2
293 0400 2 GETDVI_LIST[0,0,16,0] = 4;
294 0401 2 GETDVI_LIST[2,0,16,0] = DVI$ DEVCLASS;
295 0402 2 GETDVI_LIST[4,0,32,0] = DEVCLASS;
296 0403 2 GETDVI_LIST[8,0,32,0] = 0;
297 0404 2 GETDVI_LIST[12,0,16,0] = NAM$C_MAXRSS;
298 0405 2 GETDVI_LIST[14,0,16,0] = DVI$ DEVNAM;
299 0406 2 GETDVI_LIST[16,0,32,0] = INPUT_RSA;
300 0407 2 GETDVI_LIST[20,0,32,0] = RSA_DESC;
301 0408 2 GETDVI_LIST[24,0,32,0] = 0;
302 P 0409 2 STATUS_1 = $GETDVIW(
303 P 0410 2 IOSB=IOSB,
304 P 0411 2 DEVNAM=DVI_DESC,
305 0412 2 ITMLST=GETDVI_LIST);
306 0413 2 IF NOT .STATUS_1 THEN RETURN .STATUS_1;
307 0414 2
308 0415 2
309 0416 2 ! Open the input stream.
310 0417 2
311 0418 2 IF .DEVCLASS EQL DC$_CARD
312 0419 2 THEN
313 0420 2 BEGIN
314 0421 2
315 0422 2 ! Set up to issue signalled messages to the card operator.
316 0423 2
317 0424 2 PUTMSG_ACTION_ROUTINE = MAIN_HANDLER_ACTION;
318 0425 2
319 0426 2
320 0427 2 ! Open the card reader.
321 0428 2
322 0429 2 STATUS_2 = $ASSIGN(DEVNAM=DEVICE_NAME, CHAN=CARD_CHANNEL);
323 0430 2 IF NOT .STATUS_2
324 0431 2 THEN
325 0432 2 SIGNAL(
326 0433 2 INPSMB$ FACILITY^16 + SHRS_OPENIN + STS$K_SEVERE,
327 0434 2 1, RSA_DESC,
```



```
.. 328      0435      !.STATUS_2);
.. 329      0436      INPUT_NAM[NAM$B_RSL] = .RSA_DESC[0];
.. 330      0437
.. 331      0438
.. 332      0439      ! Set up the periodic timer.
.. 333      0440      !
.. 334      0441      $SETIMR(DAYTIM=PERIODIC_INTERVAL, ASTADR=TIMER_AST);
.. 335      0442
.. 336      0443
.. 337      0444      ! Start a read in the first buffer.
.. 338      0445      !
.. 339      P 0446      STATUS 3 = $QIO(
.. 340      P 0447          EFN=K_EFN_A,
.. 341      P 0448          FUNC=IOS_READBLK,
.. 342      P 0449          CHAN=.CARD_CHANNEL,
.. 343      P 0450          IOSB=CARD_IOSB_A,
.. 344      P 0451          P1=INPUT_OBF,
.. 345      0452          P2=80);
.. 346      0453      IF NOT .STATUS_3
.. 347      0454      THEN
.. 348      0455          FILE_ERROR(
.. 349      0456              INPSMB$ FACILITY^16 + SHR$_READERR + STS$_SEVERE,
.. 350      0457              INPUT_FAB,
.. 351      0458              .STATUS_3);
.. 352      0459      END
.. 353      ELSE
.. 354      0460      BEGIN
.. 355      0461
.. 356      0462      ! Access the file with RMS.
.. 357      0463      !
.. 358      0464      IF NOT $OPEN(FAB=INPUT_FAB)
.. 359      0465      THEN
.. 360      0466          FILE_ERROR(
.. 361      0467              INPSMB$ FACILITY^16 + SHR$_OPENIN + STS$_SEVERE,
.. 362      0468              INPUT_FAB,
.. 363      0469              .INPUT_FAB[FAB$L_STS], .INPUT_FAB[FAB$L_STV]);
.. 364      0470
.. 365      0471
.. 366      0472      IF NOT $CONNECT(RAB=INPUT_RAB)
.. 367      0473      THEN
.. 368      0474          FILE_ERROR(
.. 369      0475              INPSMB$ FACILITY^16 + SHR$_OPENIN + STS$_SEVERE,
.. 370      0476              INPUT_FAB,
.. 371      0477              .INPUT_RAB[RAB$L_STS], .INPUT_RAB[RAB$L_STV]);
.. 372      0478
.. 373      0479      END;
.. 374      0480
.. 375      0481      ! Initialize descriptors for dynamic strings.
.. 376      0482      !
.. 377      0483      !
.. 378      0484      2 VALUE_DESC[DSC$B_CLASS] = DSC$_CLASS_D;
.. 379      0485      2 VALUE_DESC[DSC$B_DTYPE] = DSC$_DTYPE_T;
.. 380      0486      2 VALUE_DESC[DSC$W_LENGTH] = 0;
.. 381      0487      2 VALUE_DESC[DSC$A_POINTER] = 0;
.. 382      0488
.. 383      0489      2 LOG_FILE_DESC[DSC$B_CLASS] = DSC$_CLASS_D;
.. 384      0490      2 LOG_FILE_DESC[DSC$B_DTYPE] = DSC$_DTYPE_T;
.. 385      0491      2 LOG_FILE_DESC[DSC$W_LENGTH] = 0;
```

```

: 385      0492 2 LOG_FILE_DESC[DSC$A_POINTER] = 0;
: 386      0493 2
: 387      0494 2 NAME_DESC[DSC$B_CLASS] = DSC$K_CLASS_D;
: 388      0495 2 NAME_DESC[DSC$B_DTYPE] = DSC$K_DTYPE_T;
: 389      0496 2 NAME_DESC[DSC$W_LENGTH] = 0;
: 390      0497 2 NAME_DESC[DSC$A_POINTER] = 0;
: 391      0498 2
: 392      0499 2 USERNAME_DESC[DSC$B_CLASS] = DSC$K_CLASS_D;
: 393      0500 2 USERNAME_DESC[DSC$B_DTYPE] = DSC$K_DTYPE_T;
: 394      0501 2 USERNAME_DESC[DSC$W_LENGTH] = 0;
: 395      0502 2 USERNAME_DESC[DSC$A_POINTER] = 0;
: 396      0503 2
: 397      0504 2 PASSWORD_DESC[DSC$B_CLASS] = DSC$K_CLASS_D;
: 398      0505 2 PASSWORD_DESC[DSC$B_DTYPE] = DSC$K_DTYPE_T;
: 399      0506 2 PASSWORD_DESC[DSC$W_LENGTH] = 0;
: 400      0507 2 PASSWORD_DESC[DSC$A_POINTER] = 0;
: 401      0508 2
: 402      0509 2
: 403      0510 2 ! Loop to process all jobs in the input stream.
: 404      0511 2 !
: 405      0512 2 UNTIL PROCESSING_LOOP() DO 0;
: 406      0513 2
: 407      0514 2
: 408      0515 2 ! Close the input stream.
: 409      0516 2 !
: 410      0517 2 IF .CARD_CHANNEL EQL 0
: 411      0518 2 THEN
: 412      0519 2     IF NOT $CLOSE(FAB=INPUT_FAB)
: 413      0520 2     THEN
: 414      0521 2         FILE_ERROR(
: 415      0522 2             INPSMB$ FACILITY^16 + SHR$_CLOSEIN + STS$K_SEVERE,
: 416      0523 2             INPUT_FAB,
: 417      0524 2             .INPUT_FAB[FAB$L_STS], .INPUT_FAB[FAB$L_STV]);
: 418      0525 2
: 419      0526 2
: 420      0527 2 ! Exit the symbiont.
: 421      0528 2 !
: 422      0529 2 $$$ NORMAL
: 423      0530 1 END;
```

INFO#250

L1:0418

: Referenced LOCAL symbol DEVCLASS is probably not initialized

.TITLE INPSMB Input symbiont
.IDENT \V04-000\

.PSECT DATA,NOEXE,2

00000	CARD_CHANNEL:	
	.BLKB	2
00002		
	.BLKB	2
00004	INPUT_FAB:	
	.BLKB	80
00054	INPUT_RAB:	
	.BLKB	68
00098	INPUT_NAM:	
	.BLKB	96


```

53 43 49 54 53 49 52 45 54 43 41 52 41 48 43 00000000 00020 .ADDRESS P.AAE
00024 P.AAG: .ASCII \CHARACTERISTICS\
00033 .BLKB 1
0000000F 00034 P.AAF: .LONG 15
00000000 00038 .ADDRESS P.AAG

```

```

      49 4C 43 0003C P.AAI: .ASCII \CLI\
      0003F .BLKB 1
      00000003 00040 P.AAH: .LONG 3
      00000000 00044 .ADDRESS P.AAI
45 4D 49 54 55 50 43 00048 P.AAK: .ASCII \CPU\TIME\
      0004F .BLKB 1
      00000007 00050 P.AAJ: .LONG 7
      00000000 00054 .ADDRESS P.AAK
      45 54 45 4C 45 44 00058 P.AAM: .ASCII \DELETE\
      0005E .BLKB 2
      00000006 00060 P.AAL: .LONG 6
      00000000 00064 .ADDRESS P.AAM
      44 4C 4F 48 00068 P.AAO: .ASCII \HOLD\
      00000004 0006C P.AAN: .LONG 4
      00000000 00070 .ADDRESS P.AAO
      50 45 45 4B 00074 P.AAQ: .ASCII \KEEP\
      00000004 00078 P.AAP: .LONG 4
      00000000 0007C .ADDRESS P.AAQ
      45 4C 49 46 5F 47 4F 4C 00080 P.AAS: .ASCII \LOG_FILE\
      00000008 00088 P.AAR: .LONG 8
      00000000 0008C .ADDRESS P.AAS
      45 4D 41 4E 00090 P.AAU: .ASCII \NAME\
      00000004 00094 P.AAT: .LONG 4
      00000000 00098 .ADDRESS P.AAU
      59 46 49 54 4F 4E 0009C P.AAW: .ASCII \NOTIFY\
      000A2 .BLKB 2
      00000006 000A4 P.AAV: .LONG 6
      00000000 000A8 .ADDRESS P.AAW
53 52 45 54 45 4D 41 52 41 50 000AC P.AAY: .ASCII \PARAMETERS\
      000B6 .BLKB 2
      0000000A 000B8 P.AAX: .LONG 10
      00000000 000BC .ADDRESS P.AAY
      52 45 54 4E 49 52 50 000C0 P.ABA: .ASCII \PRINTER\
      000C7 .BLKB 1
      00000007 000C8 P.AAZ: .LONG 7
      00000000 000CC .ADDRESS P.ABA
      59 54 49 52 4F 49 52 50 000D0 P.ABC: .ASCII \PRIORITY\
      00000008 000D8 P.ABB: .LONG 8
      00000000 000DC .ADDRESS P.ABC
      45 55 45 55 51 000E0 P.ABE: .ASCII \QUEUE\
      000E5 .BLKB 3
      00000005 000E8 P.ABD: .LONG 5
      00000000 000EC .ADDRESS P.ABE
      54 52 41 54 53 45 52 000F0 P.ABG: .ASCII \RESTART\
      000F7 .BLKB 1
      00000007 000F8 P.ABF: .LONG 7
      00000000 000FC .ADDRESS P.ABG
53 4B 4E 41 4C 42 5F 47 4E 49 4C 49 41 52 54 00100 P.ABI: .ASCII \TRAILING_BLANKS\
      0010F .BLKB 1
      0000000F 00110 P.ABH: .LONG 15
      00000000 00114 .ADDRESS P.ABI
      54 4C 55 41 46 45 44 53 57 00118 P.ABK: .ASCII \WSDEFAULT\
      00121 .BLKB 3
      00000009 00124 P.ABJ: .LONG 9
      00000000 00128 .ADDRESS P.ABK
      54 4E 45 54 58 45 53 57 0012C P.ABM: .ASCII \WSEXTENT\
      00000008 00134 P.ABL: .LONG 8
```



```

      41 54 4F 55 51 00000000' 00138 .ADDRESS P.ABM
      53 57 0013C P.ABO: .ASCII \WSQUOTA\
      00143 .BLKB 1
      00000007' 00144 P.ABN: .LONG 7
      00000000' 00148 .ADDRESS P.ABO
3A 54 55 50 4E 49 24 53 59 53 0014C P.ABQ: .ASCII \SYSS$INPUT:\
      00156 .BLKB 2
      0000000A' 00158 P.ABP: .LONG 10
      00000000' 0015C .ADDRESS P.ABQ
3A 54 55 50 4E 49 24 53 59 53 00160 P.ABR: .ASCII \SYSS$INPUT:\
```

```

PERIODIC_INTERVAL= P.AAA
D_P1= P.AAB
D_AFTER= P.AAD
D_CHARACTERISTICS= P.AAF
D_CLI= P.AAH
D_CPUTIME= P.AAJ
D_DELETE= P.AAL
D_HOLD= P.AAN
D_KEEP= P.AAP
D_LOG_FILE= P.AAR
D_NAME= P.AAT
D_NOTIFY= P.AAV
D_PARAMETERS= P.AAX
D_PRINTER= P.AAZ
D_PRIORITY= P.ABB
D_QUEUE= P.ABD
D_RESTART= P.ABF
D_TRAILING_BLANKS= P.ABH
D_WSDEFAULT= P.ABJ
D_WSEXTENT= P.ABL
D_WSQUOTA= P.ABN
DEVICE_NAME= P.ABP
$RMS_PTR= INPUT_FAB
$RMS_PTR= INPUT_RAB
$RMS_PTR= INPUT_NAM
.EXTRN CLISDCL_PARSE, CLISGET_VALUE
.EXTRN CLISPRESENT, LGISVALIDATE
.EXTRN LIB$FREE1_DD, LIB$SIGNAL
.EXTRN LIB$TPARSE, LIB$AB_UPCASE
.EXTRN INPSMBCLD, INPSMBS_FACILITY
.EXTRN INPSMBS_ENTFIL, INPSMBS_INVCONT
.EXTRN INPSMBS_INVLOGFIL
.EXTRN INPSMBS_INVPASS
.EXTRN INPSMBS_INVUSER
.EXTRN INPSMBS_JOB CARD
.EXTRN INPSMBS_MISSPASS
.EXTRN INPSMBS_OPENUAF
.EXTRN INPSMBS_USERVAL
.EXTRN SYSSPARSE, SYSSGETDVIW
.EXTRN SYSSASSIGN, SYSSSETIMR
.EXTRN SYSSQIO, SYSSOPEN
.EXTRN SYSSCONNECT, SYSSCLOSE
```

```

57 0000V CF 00FC 00000 INPSMB: .WORD Save R2,R3,R4,R5,R6,R7
56 0000' CF 9E 00002 MOVAB FILE_ERROR, R7
      0000' CF 9E 00007 MOVAB $RMS_PTR, R6
```

: 0321
:
:

0050	8F	00	5E 6D 6E	0000V	38 CF 00	C2 9E 2C	0000C 0000F 00014 0001B 0001C 00021 00026 0002A 0002E 00034 00039 0003D 00044 00046 0004C 00052 00057 0005D 00062 00069 0006C 00073 00078 0007F 00084 0008B 0008D 00094 0009A 0009A 000A0 000A3 000A9 000B1 000B5 000B8 000C0 000C6 000CB 000CE 000D0 000D2 000D5 000D8 000DB 000DD 000E4 000E7 000E8 000EF 000F1 000F8 000FA 000FD 00101 00108 0010B 0010D	SUBL2 MOVAB MOVCS MOVW MOVZBL MOVB MOVB MOVAB MOVAB MOVAB MOVCS MOVW MOVZWL MOVZBW MOVAB MOVAB MOVCS MOVW MNEGB MOVAB MNEGB MOVAB PUSHL CALLS MOVZBL MOVAB CLRL MOVAB MOVL MOVAB CLRL MOVL MOVAB MOVAB CLRL CLRQ CLRL PUSHAB PUSHAB PUSHAB CLRQ CALLS BLBS RET CMPL BNEQ MOVAB CLRQ PUSHAB PUSHAB CALLS BLBS PUSHL PUSHAB	#56, SP MAIN HANDLER, (FP) #0, (TSP), #0, #80, \$RMS_PTR #20483, \$RMS_PTR #64, \$RMS_PTR+4 #2, \$RMS_PTR+22 #2, \$RMS_PTR+31 INPUT_NAM, \$RMS_PTR+40 P.ABR, \$RMS_PTR+44 #10, \$RMS_PTR+52 #0, (SP), #0, #68, \$RMS_PTR #17409, \$RMS_PTR #512, \$RMS_PTR+4 #80, \$RMS_PTR+32 INPUT_UBF, \$RMS_PTR+36 INPUT_FAB, \$RMS_PTR+60 #0, (SP), #0, #96, \$RMS_PTR #24578, \$RMS_PTR #1, \$RMS_PTR+2 INPUT_RSA, \$RMS_PTR+4 #1, \$RMS_PTR+10 INPUT_RSA, \$RMS_PTR+12 R6 #1, SYSSPARSE INPUT_NAM+20, DVI_DESC INPUT_NAM+21, DVI_DESC+4 RSA_DESC INPUT_RSA, RSA_DESC+4 #262148, GETDVI_LIST DEVCLASS, GETDVI_LIST+4 GETDVI_LIST+8 #2097407, GETDVI_LIST+12 INPUT_RSA, GETDVI_LIST+16 RSA_DESC, GETDVI_LIST+20 GETDVI_LIST+24 -(SP) -(SP) IOSB GETDVI_LIST DVI_DESC -(SP) #8, SYSSGETDVIW STATUS_1, 1\$ DEVCLASS, #65 3\$ MAIN_HANDLER_ACTION, PUTMSG_ACTION_ROUTINE -(SP) CARD_CHANNEL DEVICE_NAME #4, SYSSASSIGN STATUS_2, 2\$ STATUS_2 RSA_DESC	0366 0376
------	----	----	----------------	-------	----------------	----------------	--	--	--	--

00000000G	00	00000000*	01	DD	00110	PUSHL	#1		
0097	C6	30	8F	DD	00112	PUSHL	#<<<INPSMB\$ FACILITY@16>+4248>+4>		0433
			04	FB	00118	CALLS	#4, LIB\$SIGNAL		
			AE	90	0011F	2\$:	MOVB	RSA_DESC, INPUT_NAM+3	0436
			7E	D4	00125		CLRL	-(SP)	0441
		0000V	CF	9F	00127		PUSHAB	TIMER_AST	
		FD67	CF	9F	0012B		PUSHAB	PERIODIC_INTERVAL	
00000000G	00		7E	D4	0012F		CLRL	-(SP)	
			04	FB	00131		CALLS	#4, SYSS\$SETIMR	
			7E	7C	00138		CLRQ	-(SP)	0452
	7E	50	7E	7C	0013A		CLRQ	-(SP)	
		01F4	8F	9A	0013C		MOVZBL	#80, -(SP)	
			C6	9F	00140		PUSHAB	INPUT_UBF	
			7E	7C	00144		CLRQ	-(SP)	
		0540	C6	9F	00146		PUSHAB	CARD_IOSB_A	
			21	DD	0014A		PUSHL	#33	
	7E	FC	A6	3C	0014C		MOVZWL	CARD_CHANNEL, -(SP)	
00000000G	00		01	DD	00150		PUSHL	#1	
	46		0C	FB	00152		CALLS	#12, SYSS\$QIO	0453
			50	E8	00159		BLBS	STATUS_3, 5\$	0458
			50	DD	0015C		PUSHL	STATUS_3	0455
			56	DD	0015E		PUSHL	R6	0456
		00000000*	8F	DD	00160		PUSHL	#<<<INPSMB\$ FACILITY@16>+4272>+4>	
	67		03	FB	00166		CALLS	#3, FILE_ERROR	
			37	11	00169		BRB	5\$	0418
			56	DD	0016B	3\$:	PUSHL	R6	0465
00000000G	00		01	FB	0016D		CALLS	#1, SYSS\$OPEN	
	0F		50	E8	00174		BLBS	R0, 4\$	
	7E	08	A6	7D	00177		MOVQ	INPUT_FAB+8, -(SP)	0470
			56	DD	0017B		PUSHL	R6	0467
		00000000*	8F	DD	0017D		PUSHL	#<<<INPSMB\$ FACILITY@16>+4248>+4>	0468
	67		04	FB	00183		CALLS	#4, FILE_ERROR	
		50	A6	9F	00186	4\$:	PUSHAB	INPUT_RAB	0473
00000000G	00		01	FB	00189		CALLS	#1, SYSS\$CONNECT	
	0F		50	E8	00190		BLBS	R0, 5\$	
	7E	58	A6	7D	00193		MOVQ	INPUT_RAB+8, -(SP)	0478
			56	DD	00197		PUSHL	R6	0475
		00000000*	8F	DD	00199		PUSHL	#<<<INPSMB\$ FACILITY@16>+4248>+4>	0476
	67		04	FB	0019F		CALLS	#4, FILE_ERROR	
0550	C6	020E0000	8F	D0	001A2	5\$:	MOVL	#34471936, VALUE_DESC	0486
		0554	C6	D4	001AB		CLRL	VALUE_DESC+4	0487
0558	C6	020E0000	8F	D0	001AF		MOVL	#34471936, LOG_FILE_DESC	0491
		055C	C6	D4	001B8		CLRL	LOG_FILE_DESC+4	0492
0560	C6	020E0000	8F	D0	001BC		MOVL	#34471936, NAME_DESC	0496
		0564	C6	D4	001C5		CLRL	NAME_DESC+4	0497
0568	C6	020E0000	8F	D0	001C9		MOVL	#34471936, USERNAME_DESC	0501
		056C	C6	D4	001D2		CLRL	USERNAME_DESC+4	0502
0570	C6	020E0000	8F	D0	001D6		MOVL	#34471936, PASSWORD_DESC	0506
		0574	C6	D4	001DF		CLRL	PASSWORD_DESC+4	0507
0000V	CF		00	FB	001E3	6\$:	CALLS	#0, PROCESSING_LOOP	0512
	F8		50	E9	001E8		BLBC	R0, 6\$	
		FC	A6	B5	001EB		TSTW	CARD_CHANNEL	0517
			1B	12	001EE		BNEQ	7\$	
			56	DD	001F0		PUSHL	R6	0519
00000000G	00		01	FB	001F2		CALLS	#1, SYSS\$CLOSE	
	0F		50	E8	001F9		BLBS	R0, 7\$	
	7E	08	A6	7D	001FC		MOVQ	INPUT_FAB+8, -(SP)	0524

INPSMB
V04-000

Input symbiont

L 6
16-Sep-1984 01:43:25
14-Sep-1984 12:35:25

VAX-11 Bliss-32 V4.0-742
[INPSMB.SRC]INPSMB.B32;1

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67	00000000*	56	DD	00200	PUSHL	R6		
50		8F	DD	00202	PUSHL	#<<<INPSMB\$ FACILITY@16>+4176>+4>		
		04	FB	00208	CALLS	#4, FILE_ERROR		
		01	DO	0020B	MOVL	#1, R0		
		04	0020E	7\$:	RET			

: 0521
: 0522
: 0530
:

; Routine Size: 527 bytes, Routine Base: CODE + 016A


```

425 0531 1 ROUTINE PROCESSING_LOOP_HANDLER(SIG,MCH)=
426 0532 1
427 0533 1 ++
428 0534 1
429 0535 1 FUNCTIONAL DESCRIPTION:
430 0536 1 This is a condition handler for routine PROCESSING_LOOP.
431 0537 1
432 0538 1 INPUT PARAMETERS:
433 0539 1 Standard VMS condition handler parameters.
434 0540 1
435 0541 1 IMPLICIT INPUTS:
436 0542 1 NONE
437 0543 1
438 0544 1 OUTPUT PARAMETERS:
439 0545 1 NONE
440 0546 1
441 0547 1 IMPLICIT OUTPUTS:
442 0548 1 NONE
443 0549 1
444 0550 1 ROUTINE VALUE:
445 0551 1 NONE
446 0552 1
447 0553 1 SIDE EFFECTS:
448 0554 1 NONE
449 0555 1
450 0556 1 --
451 0557 1
452 0558 2 BEGIN
453 0559 2 MAP
454 0560 2 SIG: REF BBLOCK, ! Signal parameters
455 0561 2 MCH: REF BBLOCK; ! Mechanism parameters
456 0562 2 LOCAL
457 0563 2 COND: BBLOCK[4]; ! Status value
458 0564 2 BUILTIN
459 0565 2 AP,
460 0566 2 CALLG;
461 0567 2
462 0568 2
463 0569 2 ! Get the condition that was signalled.
464 0570 2
465 0571 2 COND = .SIG[CHF$$_SIG_NAME];
466 0572 2
467 0573 2
468 0574 2 IF .COND NEQ $$$_UNWIND
469 0575 2 THEN
470 0576 2 BEGIN
471 0577 2
472 0578 2 ! Downgrade the severity of any message issued to error.
473 0579 2
474 0580 2 IF .COND[ST$$_SEVERITY] EQL ST$$_SEVERE
475 0581 2 THEN
476 0582 2 BBLOCK[SIG[CHF$$_SIG_NAME], ST$$_SEVERITY] = ST$$_ERROR;
477 0583 2
478 0584 2
479 0585 2 ! Call the main handler to issue the message.
480 0586 2
481 0587 3 CALLG(.AP, MAIN_HANDLER);
```

END:

; Routine Size: 83 bytes, Routine Base: CODE + 0379

INPSMB
V04-000

Input symbiont

B 7
16-Sep-1984 01:43:25
14-Sep-1984 12:35:25

VAX-11 Bliss-32 V4.0-742
[INPSMB.SRC]INPSMB.B32;1

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IN
VO


```
511 0616 1 ROUTINE PROCESSING_LOOP=
512 0617 1
513 0618 1 !++
514 0619 1
515 0620 1 FUNCTIONAL DESCRIPTION:
516 0621 1 This routine implements the main control sequencing for the input
517 0622 1 symbiont.
518 0623 1
519 0624 1 INPUT PARAMETERS:
520 0625 1 NONE
521 0626 1
522 0627 1 IMPLICIT INPUTS:
523 0628 1 NONE
524 0629 1
525 0630 1 OUTPUT PARAMETERS:
526 0631 1 NONE
527 0632 1
528 0633 1 IMPLICIT OUTPUTS:
529 0634 1 NONE
530 0635 1
531 0636 1 ROUTINE VALUE:
532 0637 1 NONE
533 0638 1
534 0639 1 SIDE EFFECTS:
535 0640 1 NONE
536 0641 1
537 0642 1 --
538 0643 1
539 0644 2 BEGIN
540 0645 2 PARSE_GLOBAL_REGISTERS;
541 0646 2 LOCAL
542 0647 2 ITEM_BUFFER: BBLOCK[2048], ! $SNDJBC item buffer
543 0648 2 DATA_BUFFER: BBLOCK[2048], ! $SNDJBC data buffer
544 0649 2 UAF_BUFFER: BBLOCK[UAF$C_LENGTH], ! UAF record for user
545 0650 2 UAF_DESC: VECTOR[2], ! Descriptor for UAF buffer
546 0651 2 DNA_BUFFER: VECTOR[NAM$C_MAXRSS,BYTE], ! Default filename
547 0652 2 DNA_DESC: VECTOR[2], ! Descriptor for DNA buffer
548 0653 2 IOSB: VECTOR[4,WORD], ! $SNDJBC status block
549 0654 2 LINE_DESC: BBLOCK[DSC$C_S_BLN], ! Descriptor for command
550 0655 2 STATUS_1: ! Status return
551 0656 2 STATUS_2: ! Status return
552 0657 2 BUILTIN
553 0658 2 FP;
554 0659 2
555 0660 2
556 0661 2 ! Establish the condition handler.
557 0662 2
558 0663 2 .FP = PROCESSING_LOOP_HANDLER;
559 0664 2
560 0665 2
561 0666 2 ! Initialize for command parsing utilities.
562 0667 2
563 P 0668 2 PARSE_GLOBAL_INIT(
564 P 0669 2 ICURSOR= ITEM_BUFFER,
565 P 0670 2 DCURSOR= DATA_BUFFER,
566 P 0671 2 MESSAGE= INPSMB$ FACILITY^16 OR SHR$_BADQNAME OR STS$K_SEVERE,
567 0672 2 VALUE_DESC= VALUE_DESC);
```



```
568 0673 2
569 0674 2
570 0675 2 ! Read the input stream searching for a JOB command.
571 0676 2
572 0677 2 UNTIL .CURRENT_COMMAND EQL K_JOB DO
573 0678 2 BEGIN
574 0679 2 IF NOT GET_RECORD() THEN RETURN TRUE;
575 0680 2 CURRENT_COMMAND = IDENTIFY_COMMAND_VERB(FALSE, LINE_DESC);
576 0681 2 END;
577 0682 2
578 0683 2
579 0684 2 ! Save the JOB command for error messages.
580 0685 2
581 0686 2 JOB_LENGTH = .INPUT_RAB[RAB$W_RSZ];
582 0687 2 CH$MOVE(.JOB_LENGTH, .INPUT_RAB[RAB$L_RBF], JOB_BUFFER);
583 0688 2
584 0689 2
585 0690 2 ! Parse the JOB command.
586 0691 2
587 0692 2 CURRENT_COMMAND = K_NONE;
588 0693 2 CLISDCL_PARSE(LINE_DESC, INPSMBCLD, 0, GET_LINE_CONTINUATION);
589 0694 2
590 0695 2
591 0696 2 ! Free dynamic strings to ensure that jobs do not interfere with one another.
592 0697 2
593 0698 2 LIB$FREE1_DD(VALUE_DESC);
594 0699 2 LIB$FREE1_DD(LOG_FILE_DESC);
595 0700 2 LIB$FREE1_DD(NAME_DESC);
596 0701 2 LIB$FREE1_DD(USERNAME_DESC);
597 0702 2 LIB$FREE1_DD(PASSWORD_DESC);
598 0703 2
599 0704 2
600 0705 2 ! Get the parameter, which is the username.
601 0706 2
602 0707 2 CLISGET VALUE(D_P1, USERNAME_DESC);
603 0708 2 IF .USERNAME_DESC[DSC$W_LENGTH] GTRU 12
604 0709 2 THEN
605 0710 2 SIGNAL(INPSMB$_INVUSER, 1, USERNAME_DESC);
606 0711 2
607 0712 2
608 0713 2 ! Get the /QUEUE qualifier.
609 0714 2
610 0715 2 PARSE_CALL(QUEUE, D_QUEUE, SJCS_QUEUE, $DESCRIPTOR('SYSS$BATCH'));
611 0716 2 Q_MESSAGE = INPSMB$_FACILITY^16 + SHR$_INVQUAVAL + STS$K_SEVERE;
612 0717 2
613 0718 2
614 0719 2 ! Get the /AFTER qualifier.
615 0720 2
616 0721 2 PARSE_CALL(AFTER, D_AFTER);
617 0722 2
618 0723 2
619 0724 2 ! Get the /CHARACTERISTICS qualifier.
620 0725 2
621 0726 2 PARSE_CALL(CHARACTERISTICS, D_CHARACTERISTICS);
622 0727 2
623 0728 2
624 0729 2 ! Get the /CLI qualifier.
```

```
625 0730 2 !
626 0731 2 PARSE_CALL(FILENAME, D_CLI, SJC$_CLI, SJC$_NO_CLI);
627 0732 2
628 0733 2
629 0734 2 ! Get the /CPUTIME qualifier.
630 0735 2
631 0736 2 PARSE_CALL(CPUTIME, D_CPUTIME, SJC$_CPU_LIMIT, SJC$_NO_CPU_LIMIT);
632 0737 2
633 0738 2
634 0739 2 ! Get the /DELETE qualifier.
635 0740 2
636 0741 2 PARSE_CALL(IF_TRUE, D_DELETE, SJC$_DELETE_FILE);
637 0742 2
638 0743 2
639 0744 2 ! Get the /HOLD qualifier.
640 0745 2
641 0746 2 PARSE_CALL(IF_TRUE, D_HOLD, SJC$_HOLD);
642 0747 2
643 0748 2
644 0749 2 ! Get the /KEEP qualifier.
645 0750 2
646 0751 2 PARSE_CALL(IF_TRUE, D_KEEP, SJC$_NO_LOG_DELETE);
647 0752 2
648 0753 2
649 0754 2 ! Get the /LOG_FILE qualifier.
650 0755 2
651 0756 2 Q VALUE_DESC = LOG_FILE_DESC;
652 0757 2 FLAG[V_NO_LOG_FILE] = PARSE_CALL_VALUE(LOG_FILE, D_LOG_FILE);
653 0758 2
654 0759 2
655 0760 2 ! Get the /NAME qualifier.
656 0761 2
657 0762 2 Q VALUE_DESC = NAME_DESC;
658 0763 2 PARSE_CALL(NAME, D_NAME);
659 0764 2 Q_VALUE_DESC = VALUE_DESC;
660 0765 2
661 0766 2
662 0767 2 ! Get the /NOTIFY qualifier.
663 0768 2
664 0769 2 PARSE_CALL(IF_TRUE, D_NOTIFY, SJC$_NOTIFY);
665 0770 2
666 0771 2
667 0772 2 ! Get the /PARAMETERS qualifier.
668 0773 2
669 0774 2 PARSE_CALL(PARAMETERS, D_PARAMETERS);
670 0775 2
671 0776 2
672 0777 2 ! Get the /PRINTER qualifier.
673 0778 2
674 0779 2 PARSE_CALL(PRINTER, D_PRINTER);
675 0780 2
676 0781 2
677 0782 2 ! Get the /PRIORITY qualifier.
678 0783 2
679 0784 2 PARSE_CALL(PRIORITY, D_PRIORITY);
680 0785 2
681 0786 2
```



```

: 682 0787 2 ! Get the /RESTART qualifier.
: 683 0788 2
: 684 0789 2 PARSE_CALL(IF_TRUE, D_RESTART, SJCS_RESTART);
: 685 0790 2
: 686 0791 2
: 687 0792 2 ! Get the /TRAILING_BLANKS qualifier.
: 688 0793 2
: 689 0794 2 FLAGS[V_TRAILING_BLANKS] = CLISPRESNT(D_TRAILING_BLANKS);
: 690 0795 2
: 691 0796 2
: 692 0797 2 ! Get the /WSDEFAULT qualifier.
: 693 0798 2
: 694 0799 2 PARSE_CALL(WORKING_SET, D_WSDEFAULT, SJCS_WSDEFAULT, SJCS_NO_WSDEFAULT);
: 695 0800 2
: 696 0801 2
: 697 0802 2 ! Get the /WSEXTENT qualifier.
: 698 0803 2
: 699 0804 2 PARSE_CALL(WORKING_SET, D_WSEXTENT, SJCS_WSEXTENT, SJCS_NO_WSEXTENT);
: 700 0805 2
: 701 0806 2
: 702 0807 2 ! Get the /WSQUOTA qualifier.
: 703 0808 2
: 704 0809 2 PARSE_CALL(WORKING_SET, D_WSQUOTA, SJCS_WSQUOTA, SJCS_NO_WSQUOTA);
: 705 0810 2
: 706 0811 2
: 707 0812 2 ! Read the input stream for a PASSWORD command.
: 708 0813 2
: 709 0814 2 IF NOT GET_RECORD() THEN RETURN TRUE;
: 710 0815 2 CURRENT_COMMAND = IDENTIFY_COMMAND_VERB(TRUE, LINE_DESC);
: 711 0816 2 IF .CURRENT_COMMAND NEQ K_PASSWORD THEN SIGNAL(INPSMB$MISSPASS);
: 712 0817 2
: 713 0818 2
: 714 0819 2 ! Parse the PASSWORD command.
: 715 0820 2
: 716 0821 2 CLISDCL_PARSE(LINE_DESC, INPSMBCLD, 0, GET_LINE_CONTINUATION);
: 717 0822 2
: 718 0823 2
: 719 0824 2 ! Get the parameter, which is the password.
: 720 0825 2
: 721 0826 2 CLISGET_VALUE(D_P1, PASSWORD_DESC);
: 722 0827 2 IF .PASSWORD_DESC[DSC$W_LENGTH] GTRU 31
: 723 0828 2 THEN
: 724 0829 2     SIGNAL(INPSMB$INVPASS, 1, PASSWORD_DESC);
: 725 0830 2
: 726 0831 2
: 727 0832 2 ! Validate access to the specified username and password.
: 728 0833 2
: 729 0834 2 UAF_DESC[0] = %ALLOCATION(UAF_BUFFER);
: 730 0835 2 UAF_DESC[1] = UAF_BUFFER;
: 731 0836 2 STATUS_1 = LGI$VALIDATE(USERNAME_DESC, PASSWORD_DESC, UAF_DESC);
: 732 0837 2 IF NOT .STATUS_1
: 733 0838 2 THEN
: 734 0839 2     IF .STATUS_1 GEQ 0
: 735 0840 2     THEN SIGNAL(INPSMB$OPENUAF, 0, .STATUS_1)
: 736 0841 2     ELSE SIGNAL(INPSMB$USERVAL);
: 737 0842 2
: 738 0843 2
```

```
: 739      0844 2 IF NOT .FLAGS[V_NO_LOG_FILE]
: 740      0845 2 THEN
: 741      0846 2 BEGIN
: 742      0847 2
: 743      0848 2 ! Compute the log file default name string.
: 744      0849 2
: 745      0850 2 DNA_DESC[0] = %ALLOCATION(DNA_BUFFER);
: 746      0851 2 DNA_DESC[1] = DNA_BUFFER;
: 747      0852 2 $FAD(
: 748      0853 2     $DESCRIPTOR('!AC!AC.LOG'),
: 749      0854 2     DNA_DESC,
: 750      0855 2     DNA_DESC,
: 751      0856 2     UAF_BUFFER[UAF$T_DEFDEV],
: 752      0857 2     UAF_BUFFER[UAF$T_DEFDIR]);
: 753      0858 2
: 754      0859 2
: 755      0860 2 ! Compute the log file specification.
: 756      0861 2
: 757      0862 2 PARSE CALL(NAME AND LOG_FILE,
: 758      0863 2     NAME_DESC, LOG_FILE_DESC,
: 759      0864 2     DNA_DESC, INPSMB$INVLOGFIL);
: 760      0865 2 END;
: 761      0866 2
: 762      0867 2
: 763      0868 2 ! Compute the command file default name string.
: 764      0869 2
: 765      0870 2 DNA_DESC[0] = %ALLOCATION(DNA_BUFFER);
: 766      0871 2 DNA_DESC[1] = DNA_BUFFER;
: 767      0872 2 $FAD(
: 768      0873 2     $DESCRIPTOR('!AC!ACINPBATCH.COM'),
: 769      0874 2     DNA_DESC,
: 770      0875 2     DNA_DESC,
: 771      0876 2     UAF_BUFFER[UAF$T_DEFDEV],
: 772      0877 2     UAF_BUFFER[UAF$T_DEFDIR]);
: 773      0878 2
: 774      0879 2
: 775      0880 2 ! Create the output command file.
: 776      0881 2
: 777      0882 2 $FAB INIT(FAB=OUTPUT_FAB,
: 778      0883 2     DNA=.DNA_DESC[1],
: 779      0884 2     DNS=.DNA_DESC[0],
: 780      0885 2     FAC=PUT,
: 781      0886 2     FNA=.NAME_DESC[DSC$A_POINTER],
: 782      0887 2     FNS=.NAME_DESC[DSC$W_LENGTH],
: 783      0888 2     FOP=SQO,
: 784      0889 2     NAM=OUTPUT_NAM,
: 785      0890 2     ORG=SEQ,
: 786      0891 2     RAT=CR,
: 787      0892 2     RFM=VAR,
: 788      0893 2     XAB=OUTPUT_XAB);
: 789      0894 2 $RAB INIT(RAB=OUTPUT_RAB,
: 790      0895 2     FAB=OUTPUT_FAB,
: 791      0896 2     ROP=WBH);
: 792      0897 2 $NAM INIT(NAM=OUTPUT_NAM,
: 793      0898 2     ESA=OUTPUT_RSA,
: 794      0899 2     ESS=NAM$C_MAXRSS,
: 795      0900 2     RSA=OUTPUT_RSA,
```



```

796 0901 2      RSS=NAM$C MAXRSS);
797 P 0902 2 $XABPRO_INIT(RAB=OUTPUT_XAB,
798 0903 2      PRO=<RWED,RWED,>);
799 0904 2      OUTPUT_XAB[XAB$L_UIC] = .UAF_BUFFER[UAF$L_UIC];
800 0905 2
801 0906 2
802 0907 2      IF NOT $CREATE(FAB=OUTPUT_FAB)
803 0908 2      THEN
804 0909 2          FILE_ERROR(
805 0910 2              INPSMB$ FACILITY^16 + SHR$_OPENOUT + ST$K_ERROR,
806 0911 2              OUTPUT_FAB,
807 0912 2              .OUTPUT_FAB[FAB$L_STS], .OUTPUT_FAB[FAB$L_STV]);
808 0913 2
809 0914 2
810 0915 2      IF NOT $CONNECT(RAB=OUTPUT_RAB)
811 0916 2      THEN
812 0917 2          FILE_ERROR(
813 0918 2              INPSMB$ FACILITY^16 + SHR$_OPENOUT + ST$K_ERROR,
814 0919 2              OUTPUT_FAB,
815 0920 2              .OUTPUT_RAB[RAB$L_STS], .OUTPUT_RAB[RAB$L_STV]);
816 0921 2
817 0922 2
818 0923 2      ! Read the input stream into the command file until a JOB or EOJ command.
819 0924 2      !
820 0925 2      WHILE TRUE DO
821 0926 2          BEGIN
822 0927 2              LOCAL
823 0928 2                  RECORD_LENGTH;                ! Input record length
824 0929 2
825 0930 2
826 0931 2              ! Get the next record.  If it is JOB or EOJ, we are finished.
827 0932 2              !
828 0933 2              IF NOT GET_RECORD() THEN EXITLOOP;
829 0934 2              CURRENT_COMMAND = IDENTIFY_COMMAND VERB(FALSE, LINE_DESC);
830 0935 2              IF .CURRENT_COMMAND EQL K_JOB OR .CURRENT_COMMAND EQL K_EOJ THEN EXITLOOP;
831 0936 2
832 0937 2
833 0938 2              ! Trim trailing blanks if requested.
834 0939 2              !
835 0940 2              RECORD_LENGTH = .INPUT_RAB[RAB$L_RSZ];
836 0941 2              IF NOT .FLAGS[V_TRAILING_BLANKS]
837 0942 2              THEN
838 0943 2                  BEGIN
839 0944 2                      WHILE .RECORD_LENGTH GTR 0 DO
840 0945 2                          BEGIN
841 0946 2                              IF CH$RCHAR(.INPUT_RAB[RAB$L_RBF] + .RECORD_LENGTH - 1) NEQ %C' '
842 0947 2                              THEN EXITLOOP;
843 0948 2                              RECORD_LENGTH = .RECORD_LENGTH - 1;
844 0949 2                              END;
845 0950 2                          END;
846 0951 2
847 0952 2                  END;
848 0953 2
849 0954 2              ! Copy the record to the output command file.
850 0955 2              !
851 0956 2              OUTPUT_RAB[RAB$L_RSZ] = .RECORD_LENGTH;
852 0957 2              OUTPUT_RAB[RAB$L_RBF] = .INPUT_RAB[RAB$L_RBF];
853 0958 2              IF NOT $PUT(RAB=OUTPUT_RAB)
```

```
.. 853      0958      3      THEN
.. 854      0959      3      FILE_ERROR(
.. 855      0960      3      INPSMB$ FACILITY^16 + SHRS_WRITEERR + STSK_ERROR,
.. 856      0961      3      OUTPUT_FAB,
.. 857      0962      3      .OUTPUT_RAB[RAB$L_STS], .OUTPUT_RAB[RAB$L_STV]);
.. 858      0963      3      END;
.. 859      0964      3
.. 860      0965      3
.. 861      0966      3      ! Close the output command file.
.. 862      0967      3      !
.. 863      0968      3      IF NOT $CLOSE(FAB=OUTPUT_FAB)
.. 864      0969      3      THEN
.. 865      0970      3      FILE_ERROR(
.. 866      0971      3      INPSMB$ FACILITY^16 + SHRS_CLOSEOUT + STSK_ERROR,
.. 867      0972      3      OUTPUT_FAB,
.. 868      0973      3      .OUTPUT_FAB[FAB$L_STS], .OUTPUT_FAB[FAB$L_STV]);
.. 869      0974      3
.. 870      0975      3
.. 871      0976      3      ! Set up the user identification item.
.. 872      0977      3      !
.. 873      0978      3      Q_DCOURSE[0,0,32,0] = .UAF_BUFFER[UAF$L_UIC];
.. 874      0979      3      CH$MOVE(
.. 875      0980      3      UAF$$ USERNAME,
.. 876      0981      3      UAF_BUFFER[UAF$T_USERNAME],
.. 877      0982      3      Q_DCOURSE[4,0,0,0]);
.. 878      0983      3      CH$MOVE(
.. 879      0984      3      UAF$$ ACCOUNT,
.. 880      0985      3      UAF_BUFFER[UAF$T_ACCOUNT],
.. 881      0986      3      Q_DCOURSE[16,0,0,0]);
.. 882      0987      3      Q_DCOURSE[24,0,8,0] = .UAF_BUFFER[UAF$B_PRI];
.. 883      0988      3
.. 884      0989      3
.. 885      0990      3      ! Add the remaining items and finish the list.
.. 886      0991      3      !
.. 887      0992      3      Q_ICOURSE[0,0,16,0] = NAM$$ DVI + FID$C_LENGTH + FID$C_LENGTH;
.. 888      0993      3      Q_ICOURSE[2,0,16,0] = SJC$ FILE IDENTIFICATION;
.. 889      0994      3      Q_ICOURSE[4,0,32,0] = OUTPUT_NAME[NAM$T_DVI];
.. 890      0995      3      Q_ICOURSE[8,0,32,0] = 0;
.. 891      0996      3
.. 892      0997      3      Q_ICOURSE[12,0,16,0] = 25;
.. 893      0998      3      Q_ICOURSE[14,0,16,0] = SJC$ USER IDENTIFICATION;
.. 894      0999      3      Q_ICOURSE[16,0,32,0] = .Q_DCOURSE;
.. 895      1000      3      Q_ICOURSE[20,0,32,0] = 0;
.. 896      1001      3
.. 897      1002      3      Q_ICOURSE[24,0,32,0] = 0;
.. 898      1003      3
.. 899      1004      3
.. 900      1005      3      ! Submit the output command file.
.. 901      1006      3      !
.. 902      P 1007      3      STATUS_2 = $SNDJBCW(
.. 903      P 1008      3      FUNC=SJC$_ENTER_FILE,
.. 904      P 1009      3      IOSB=IOSB,
.. 905      1010      3      ITMLST=ITEM_BUFFER);
.. 906      1011      3      IF .STATUS_2 THEN STATUS_2 = .IOSB;
.. 907      1012      3      IF NOT .STATUS_2
.. 908      1013      3      THEN
.. 909      1014      3      SIGNAL(INPSMB$_ENTFIL, 0, .STATUS_2);
```



```
: 910      1015 2
: 911      1016 2
: 912      1017 2 ! Terminate if this was end of file.
: 913      1018 2
: 914      1019 2 IF NOT .INPUT_RAB[RAB$$_STS] THEN RETURN TRUE;
: 915      1020 2 FALSE
: 916      1021 1 END;
```

```
      48 43 54 41 42 24 53 59 53 003CC P.ABT: .ASCII \SYSS$BATCH\
      003D5 .BLKB 3
      00000009 003D8 P.ABS: .LONG 9
      00000000 003DC .ADDRESS P.ABT
      47 4F 4C 2E 43 41 21 43 41 21 003E0 P.ABV: .ASCII \!AC!AC.LOG\
      003EA .BLKB 2
      0000000A 003EC P.ABU: .LONG 10
      00000000 003F0 .ADDRESS P.ABV
2E 48 43 54 41 42 50 4E 49 43 41 21 43 41 21 003F4 P.ABX: .ASCII \!AC!ACINPBATCH.COM\
      4D 4F 43 00403
      00406 .BLKB 2
      00000012 00408 P.ABW: .LONG 18
      00000000 0040C .ADDRESS P.ABX
```

```
$RMS_PTR= OUTPUT_FAB
$RMS_PTR= OUTPUT_RAB
$RMS_PTR= OUTPUT_NAM
$RMS_PTR= OUTPUT_XAB
.EXTRN PARSE_QUEUE, PARSE_AFTER
.EXTRN PARSE_CHARACTERISTICS
.EXTRN PARSE_FILENAME, PARSE_CPUTIME
.EXTRN PARSE_IF_TRUE, PARSE_LOG_FILE
.EXTRN PARSE_NAME, PARSE_PARAMETERS
.EXTRN PARSE_PRINTER, PARSE_PRIORITY
.EXTRN PARSE_WORKING_SET
.EXTRN SYSS$FAB, PARSE_NAME_AND_LOG_FILE
.EXTRN SYSS$CREATE, SYSS$PUT
.EXTRN SYSS$NDJBCW
```

OFFC 00000 PROCESSING LOOP:

```
      57 FBF6 CF 9E 00002 .WORD Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11 : 0616
      56 0000 CF 9E 00007 MOVAB D P1, R7
      5E E95C CE 9E 0000C MOVAB $RMS_PTR, R6
      6D FF54 CF 9E 00011 MOVAB -5796(SP), SP
      5B F800 CD 9E 00016 MOVAB PROCESSING_LOOP_HANDLER, (FP) : 0663
      5A 06A4 CE 9E 0001B MOVAB ITEM_BUFFER, Q_ICURSOR : 0672
      59 00000000* 8F D0 00020 MOVAB DATA_BUFFER, Q_DCURSOR
      58 02BC C6 9E 00027 MOVAB #<<<INPSMB$_FACILITY@16>!4488>!4>, -
      01 02E4 C6 D1 0002C 1$: MOVAB Q_MESSAGE
      0000V CF 00 FB 00033 BEQL VALUE_DESC, Q_VALUE_DESC : 0677
      03 50 E8 00038 CALLS CURRENT_COMMAND, #1
      047A 31 0003B BRW 3$ : 0679
      5E DD 0003E 2$: CALLS #0, GET_RECORD
      7E D4 00040 CLRL R0, 2$ : 0680
      CLRL SP
      -(SP)
```

		0000V	CF	02	FB	00042	CALLS	#2, IDENTIFY_COMMAND_VERB		
		02E4	C6	50	DO	00047	MOVL	R0, CURRENT_COMMAND		
				DE	11	0004C	BRB	1\$		0677
0250	C6	024C	C6	3C	0004E	3\$:	MOVZWL	INPUT_RAB+34, JOB_LENGTH		0686
		FDE4	D6	28	00055		MOV3	JOB_LENGTH, @INPUT_RAB+40, JOB_BUFFER		0687
				02E4	C6	D4	CLRL	CURRENT_COMMAND		0692
				0000V	CF	9F	PUSHAB	GET_LINE_CONTINUATION		0693
					7E	D4	CLRL	-(SP)		
				0000G	CF	9F	PUSHAB	INPSMBCLD		
				OC	AE	9F	PUSHAB	LINE_DESC		
		00000000G	00	04	FB	00070	CALLS	#4, CLISDCL_PARSE		
				02BC	C6	9F	PUSHAB	VALUE_DESC		0698
		00000000G	00	01	FB	0007B	CALLS	#1, LIB\$FREE1_DD		
				02C4	C6	9F	PUSHAB	LOG_FILE_DESC		0699
		00000000G	00	01	FB	00082	CALLS	#1, LIB\$FREE1_DD		
				02CC	C6	9F	PUSHAB	NAME_DESC		0700
		00000000G	00	01	FB	00091	CALLS	#1, LIB\$FREE1_DD		
				02D4	C6	9F	PUSHAB	USERNAME_DESC		0701
		00000000G	00	01	FB	0009C	CALLS	#1, LIB\$FREE1_DD		
				02DC	C6	9F	PUSHAB	PASSWORD_DESC		0702
		00000000G	00	01	FB	000A7	CALLS	#1, LIB\$FREE1_DD		
				02D4	C6	9F	PUSHAB	USERNAME_DESC		0707
				57	DD	000B2	PUSHL	R7		
		00000000G	00	02	FB	000B4	CALLS	#2, CLISGET_VALUE		
			OC	02D4	C6	B1	CMPL	USERNAME_DESC, #12		0708
					13	1B	BLEQU	4\$		
				02D4	C6	9F	PUSHAB	USERNAME_DESC		0710
					01	DD	PUSHL	#1		
				00000000G	8F	DD	PUSHL	#INPSMB\$ INVUSER		
		00000000G	00	03	FB	000CE	CALLS	#3, LIB\$SIGNAL		
				03CC	C7	9F	PUSHAB	P.ABS		0715
			7E	86	8F	9A	MOVZBL	#134, -(SP)		
				00DC	C7	9F	PUSHAB	D_QUEUE		
		0000G	CF	03	FB	000E1	CALLS	#3, PARSE_QUEUE		
			59	00000000*	8F	DO	MOVL	#<<<INPSMB\$_FACILITY@16>+4904>+4>, -		0716
								Q_MESSAGE		
				10	A7	9F	PUSHAB	D_AFTER		0721
		0000G	CF	01	FB	000F0	CALLS	#T, PARSE_AFTER		
				28	A7	9F	PUSHAB	D_CHARACTERISTICS		0726
		0000G	CF	01	FB	000F8	CALLS	#T, PARSE_CHARACTERISTICS		
					12	DD	PUSHL	#18		0731
					11	DD	PUSHL	#17		
				34	A7	9F	PUSHAB	D_CLI		
		0000G	CF	03	FB	00104	CALLS	#3, PARSE_FILENAME		
					16	DD	PUSHL	#22		0736
					15	DD	PUSHL	#21		
				44	A7	9F	PUSHAB	D_CPUTIME		
		0000G	CF	03	FB	00110	CALLS	#3, PARSE_CPUTIME		
					18	DD	PUSHL	#24		0741
				54	A7	9F	PUSHAB	D_DELETE		
		0000G	CF	02	FB	0011A	CALLS	#2, PARSE_IF_TRUE		
			7E	47	8F	9A	MOVZBL	#71, -(SP)		0746
				60	A7	9F	PUSHAB	D_HOLD		
		0000G	CF	02	FB	00126	CALLS	#2, PARSE_IF_TRUE		
			7E	60	8F	9A	MOVZBL	#96, -(SP)		0751
				6C	A7	9F	PUSHAB	D_KEEP		
		0000G	CF	02	FB	00132	CALLS	#2, PARSE_IF_TRUE		

02A4	C6	01	0000G	58	02C4	C6	9E	00137	MOVAB	LOG_FILE_DESC, Q_VALUE_DESC	0756		
					7C	A7	9F	0013C	PUSHAB	D LOG_FICE	0757		
						01	FB	0013F	CALLS	#T, PARSE_LOG_FILE			
						50	FO	00144	INSV	R0, #0, #T, FLAGS			
						02CC	C6	9E	0014B	MOVAB	NAME_DESC, Q_VALUE_DESC	0762	
						0088	C7	9F	00150	PUSHAB	D NAME	0763	
							01	FB	00154	CALLS	#T, PARSE_NAME		
							C6	9E	00159	MOVAB	VALUE_DESC, Q_VALUE_DESC	0764	
							6C	8F	9A	0015E	MOVZBL	#108, -(SP)	0769
							0098	C7	9F	00162	PUSHAB	D NOTIFY	
							02	FB	00166	CALLS	#2, PARSE_IF_TRUE		
							00AC	C7	9F	0016B	PUSHAB	D PARAMETERS	0774
							01	FB	0016F	CALLS	#T, PARSE_PARAMETERS		
							00BC	C7	9F	00174	PUSHAB	D PRINTER	0779
							01	FB	00178	CALLS	#T, PARSE_PRINTER		
							00CC	C7	9F	0017D	PUSHAB	D PRIORITY	0784
							01	FB	00181	CALLS	#T, PARSE_PRIORITY		
							8A	8F	9A	00186	MOVZBL	#138, -(SP)	0789
							00EC	C7	9F	0018A	PUSHAB	D RESTART	
							02	FB	0018E	CALLS	#2, PARSE_IF_TRUE		
							0104	C7	9F	00193	PUSHAB	D TRAILING_BLANKS	0794
							01	FB	00197	CALLS	#T, CLIPRESENT		
							50	FO	0019E	INSV	R0, #2, #1, FLAGS		
							98	8F	9A	001A5	MOVZBL	#152, -(SP)	0799
							97	8F	9A	001A9	MOVZBL	#151, -(SP)	
							0118	C7	9F	001AD	PUSHAB	D WSDEFAULT	
							03	FB	001B1	CALLS	#3, PARSE_WORKING_SET		
							9A	8F	9A	001B6	MOVZBL	#154, -(SP)	0804
							99	8F	9A	001BA	MOVZBL	#153, -(SP)	
							0128	C7	9F	001BE	PUSHAB	D WSEXTENT	
							03	FB	001C2	CALLS	#3, PARSE_WORKING_SET		
							9C	8F	9A	001C7	MOVZBL	#156, -(SP)	0809
							9B	8F	9A	001CB	MOVZBL	#155, -(SP)	
							0138	C7	9F	001CF	PUSHAB	D WSQUOTA	
							03	FB	001D3	CALLS	#3, PARSE_WORKING_SET		
							00	FB	001D8	CALLS	#0, GET_RECORD	0814	
							50	E8	001DD	BLBS	R0, 5\$		
							02D5	31	001E0	BRW	20\$		
							5E	DD	001E3	PUSHL	SP	0815	
							01	DD	001E5	PUSHL	#1		
							02	FB	001E7	CALLS	#2, IDENTIFY_COMMAND_VERB		
							50	DO	001EC	MOVL	R0, CURRENT_COMMAND		
							02E4	C6	D1	001F1	CMPL	CURRENT_COMMAND, #5	0816
							0D	13	001F6	BEQL	6\$		
							8F	DD	001F8	PUSHL	#INPSMB\$ MISSPASS		
							01	FB	001FE	CALLS	#1, LIB\$SIGNAL		
							0000V	CF	9F	00205	PUSHAB	GET_LINE_CONTINUATION	0821
							7E	D4	00209	CLRL	-(SP)		
							0000G	CF	9F	0020B	PUSHAB	INPSMBCLD	
							0C	AE	9F	0020F	PUSHAB	LINE_DESC	
							04	FB	00212	CALLS	#4, CLISDCL_PARSE	0826	
							02DC	C6	9F	00219	PUSHAB	PASSWORD_DESC	
							57	DD	0021D	PUSHL	R7		
							02	FB	0021F	CALLS	#2, CLISGET_VALUE		
							02DC	C6	B1	00226	CMPW	PASSWORD_DESC, #31	0827
							13	1B	0022B	BLEQU	7\$		
							02DC	C6	9F	0022D	PUSHAB	PASSWORD_DESC	0829

			01	DD	00231	PUSHL	#1		
			8F	DD	00233	PUSHL	#INPSMB\$ INVPASS		
		00000000G	03	FB	00239	CALLS	#3, LIB\$SIGNAL		
	00	0584	8F	3C	00240	MOVZWL	#1412, UAF_DESC		0834
	0118	CE	CE	9E	00247	MOVAB	UAF_BUFFER, UAF_DESC+4		0835
	011C	CE	CE	9F	0024E	PUSHAB	UAF_DESC		0836
		02DC	C6	9F	00252	PUSHAB	PASSWORD_DESC		
		02D4	C6	9F	00256	PUSHAB	USERNAME_DESC		
	00000000G	00	03	FB	0025A	CALLS	#3, LGIS\$VALIDATE		
		24	50	E8	00261	BLBS	STATUS_1, 9\$		0837
			50	D5	00264	TSTL	STATUS_1		0839
			13	19	00266	BLSS	8\$		
			50	DD	00268	PUSHL	STATUS_1		0840
			7E	D4	0026A	CLRL	-(SP)		
	00000000G	00	8F	DD	0026C	PUSHL	#INPSMB\$ OPENUAF		
			03	FB	00272	CALLS	#3, LIB\$SIGNAL		
			0D	11	00279	BRB	9\$		
	00000000G	00	8F	DD	0027B	PUSHL	#INPSMB\$ USERVAL		0841
			01	FB	00281	CALLS	#1, LIB\$SIGNAL		
	00000000G	00	C6	E8	00288	BLBS	FLAGS, 10\$		0844
		02A4	8F	9A	0028D	MOVZBL	#255, DNA_DESC		0850
	10	FF	AE	9E	00292	MOVAB	DNA_BUFFER, DNA_DESC+4		0851
	14	18	CE	9F	00297	PUSHAB	UAF_BUFFER+148		0857
		01B4	CE	9F	0029B	PUSHAB	UAF_BUFFER+116		
		0198	CE	9F	0029F	PUSHAB	DNA_DESC		
		18	AE	9F	002A2	PUSHAB	DNA_DESC		
		1C	AE	9F	002A5	PUSHAB	P.ABU		
	00000000G	00	C7	9F	002A9	CALLS	#5, SYSS\$FAO		
		03E0	05	FB	002B0	PUSHL	#INPSMB\$ INVLOGFIL		0864
			8F	DD	002B6	PUSHAB	DNA_DESC		
		14	AE	9F	002B9	PUSHAB	LOG_FILE_DESC		
		02C4	C6	9F	002BD	PUSHAB	NAME_DESC		
		02CC	C6	9F	002C1	CALLS	#4, PARSE_NAME_AND_LOG_FILE		
	0000G	CF	04	FB	002C6	MOVZBL	#255, DNA_DESC		0870
	10	AE	8F	9A	002CB	MOVAB	DNA_BUFFER, DNA_DESC+4		0871
	14	AE	AE	9E	002D0	PUSHAB	UAF_BUFFER+148		0877
			CE	9F	002D4	PUSHAB	UAF_BUFFER+116		
		01B4	CE	9F	002D8	PUSHAB	DNA_DESC		
		0198	CE	9F	002DB	PUSHAB	DNA_DESC		
		18	AE	9F	002DE	PUSHAB	P.ABW		
		1C	AE	9F	002E2	CALLS	#5, SYSS\$FAO		
	00000000G	00	C7	9F	002E9	MOVCS	#0, (SP), #0, #80, \$RMS_PTR		0893
		03FC	05	FB	002F0				
			66		002F1	MOVW	#20483, \$RMS_PTR		
		5003	8F	B0	002F6	MOVZBL	#64, \$RMS_PTR+4		
		40	8F	9A	002FB	MOVB	#1, \$RMS_PTR+22		
	04	A6	01	90	002FF	MOVW	#512, \$RMS_PTR+29		
	16	A6	8F	B0	00305	MOVB	#2, \$RMS_PTR+31		
	1D	A6	02	90	00309	MOVAB	OUTPUT_XAB, \$RMS_PTR+36		
	1F	A6	C6	9E	0030F	MOVAB	OUTPUT_NAM, \$RMS_PTR+40		
	24	A6	C6	D0	00315	MOVL	NAME_DESC+4, \$RMS_PTR+44		
	28	A6	C6	D0	0031B	MOVL	DNA_DESC+4, \$RMS_PTR+48		
	2C	A6	C6	90	00320	MOVB	NAME_DESC, \$RMS_PTR+52		
	30	A6	AE	90	00326	MOVB	DNA_DESC, \$RMS_PTR+53		
	34	A6	00	2C	0032B	MOVCS	#0, (SP), #0, #68, \$RMS_PTR		0896
	35	A6	00		00332				
		10	A6		00334	MOVW	#17409, \$RMS_PTR		
		50	8F	B0					
		4401							

0060	8F	00	54 008C	A6 C6 6E	0400	8F 66 00	3C 9E 2C	0033A 00340 00345	MOVZWL MOVAB MOVCS	#1024, \$RMS_PTR+4 OUTPUT_FAB, \$RMS_PTR+60 #0, (SP), #0, #98, \$RMS_PTR	0901
			0094 0096 0098 009E 00A0	C6 C6 C6 C6 C6	0094 6002 014C 014C	C6 8F 01 C6 01 C6	0034C B0 8E 9E 8E 9E	0034C 0034F 00356 0035B 00362 00367	MOVW MNEGB MOVAB MNEGB MOVAB	#24578, \$RMS_PTR #1, \$RMS_PTR+2 OUTPUT_RSA, \$RMS_PTR+4 #1, \$RMS_PTR+10 OUTPUT_RSA, \$RMS_PTR+12	0903
0058	8F	00	00F4 00FC 0100	C6 C6 C6	00F4 5813 FF00 0144	C6 8F 8F CE	00375 B0 B0 D0	00375 00378 0037F 00386	MOVW MOVW MOVL	#22547, \$RMS_PTR #-256, \$RMS_PTR+8 UAF_BUFFER+36, OUTPUT_XAB+12	0904
			00000000G	00 11 7E	08	56 01 50	DD FB E8	0038D 0038F 00396	PUSHL CALLS BLBS	R6 #1, SYSS\$CREATE R0, 11\$	0907
			0000V	CF	00000000*	08	DD	00399	MOVQ	OUTPUT_FAB+8, -(SP)	0912
			0000V	CF	50	56	DD	0039D	PUSHL	R6	0909
			00000000G	00 11 7E	58	8F 04 A6	DD FB 9F	0039F 003A5 003AA	PUSHL CALLS PUSHAB	#<<<INPSMB\$ FACILITY@16>+4256>+2> #4, FILE_ERROR OUTPUT_RAB	0910
				00 11 7E	58	01 50 A6	FB E8 7D	003AD 003B4 003B7	CALLS BLBS MOVQ	#1, SYSS\$CONNECT R0, 13\$ OUTPUT_RAB+8, -(SP)	0915
			0000V	CF	00000000*	56	DD	003BB	PUSHL	R6	0920
			0000V	CF		8F	DD	003BD	PUSHL	#<<<INPSMB\$ FACILITY@16>+4256>+2>	0917
			0000V	CF		04	FB	003C3	CALLS	#4, FILE_ERROR	0918
			0000V	5E		00	FB	003C8	CALLS	#0, GET_RECORD	0933
						50	E9	003CD	BLBC	R0, 16\$	0934
						5E	DD	003D0	PUSHL	SP	
						7E	D4	003D2	CLRL	-(SP)	
			0000V	CF		02	FB	003D4	CALLS	#2, IDENTIFY_COMMAND_VERB	
			02E4	C6		50	D0	003D9	MOVL	R0, CURRENT_COMMAND	
				01	02E4	C6	D1	003DE	CMPL	CURRENT_COMMAND, #1	0935
				03	02E4	49	13	003E3	BEQL	16\$	
						C6	D1	003E5	CMPL	CURRENT_COMMAND, #3	
						42	13	003EA	BEQL	16\$	
			12	02A4	51	FDDE	C6	3C	MOVZWL	INPUT_RAB+34, RECORD_LENGTH	0940
					C6		02	E0	BBS	#2, FLAGS, 15\$	0941
			50		51	FDE4	10	15	BLEQ	15\$	0944
					20	FF	C6	C1	ADDL3	INPUT_RAB+40, RECORD_LENGTH, R0	0946
							A0	91	CMPB	-1(R0), #32	
							04	12	BNEQ	15\$	
							51	D7	DECL	RECORD_LENGTH	0948
							EE	11	BRB	14\$	0944
			72	A6		51	B0	00409	MOVW	RECORD_LENGTH, OUTPUT_RAB+34	0955
			78	A6	FDE4	C6	D0	0040D	MOVL	INPUT_RAB+40, OUTPUT_RAB+40	0956
					50	A6	9F	00413	PUSHAB	OUTPUT_RAB	0957
			00000000G	00		01	FB	00416	CALLS	#1, SYSS\$PUT	
				A8		50	E8	0041D	BLBS	R0, 13\$	
				7E	58	A6	7D	00420	MOVQ	OUTPUT_RAB+8, -(SP)	0962
						56	DD	00424	PUSHL	R6	0959
					00000000*	8F	DD	00426	PUSHL	#<<<INPSMB\$ FACILITY@16>+4304>+2>	0960
						95	11	0042C	BRB	12\$	
			00000000G	00		56	DD	0042E	PUSHL	R6	0968
						01	FB	00430	CALLS	#1, SYSS\$CLOSE	

		11		50	E8	00437	BLBS	R0, 17\$:	
		7E	08	A6	7D	0043A	MOVQ	OUTPUT_FAB+8, -(SP)	:	0973
				56	DD	0043E	PUSHL	R6	:	0970
			00000000*	8F	DD	00440	PUSHL	#<<<INPSMB\$ FACILITY@16>+4184>+2>	:	0971
		0000V	CF	04	FB	00446	CALLS	#4, FILE_ERROR	:	
			6A	0144	CE	D0	0044B	17\$: MOVL	UAF_BUFFER+36, (Q_DCURLSOR)	0978
04	AA	0124	CE	20	28	00450	MOVC3	#32, UAF_BUFFER+4, 4(Q_DCURLSOR)	:	0982
10	AA	0154	CE	20	28	00457	MOVC3	#32, UAF_BUFFER+52, 16(Q_DCURLSOR)	:	0986
		18	AA	0324	CE	90	0045E	MOVB	UAF_BUFFER+516, 24(Q_DCURLSOR)	0987
			6B	0027001C	8F	DC	00464	MOVL	#2555932, (Q_ICURLSOR)	0992
		04	AB	00A8	C6	9E	0046B	MOVAB	OUTPUT_NAM+20, 4(Q_ICURLSOR)	0994
				08	AB	D4	00471	CLRL	8(Q_ICURLSOR)	0995
		0C	AB	00960019	8F	D0	00474	MOVL	#9830425, 12(Q_ICURLSOR)	0997
		10	AB		5A	D0	0047C	MOVL	Q_DCURLSOR, 16(Q_ICURLSOR)	0999
				14	AB	7C	00480	CLRQ	20(Q_ICURLSOR)	1000
					7E	7C	00483	CLRQ	-(SP)	1010
				10	AE	9F	00485	PUSHAB	IOSB	
			7E	F800	CD	9F	00488	PUSHAB	ITEM_BUFFER	
					13	7D	0048C	MOVQ	#19, -(SP)	
					7E	D4	0048F	CLRL	-(SP)	
		00000000G	00		07	FB	00491	CALLS	#7, SYSSNDJBCW	
			07		50	E9	00498	BLBC	STATUS_2, 18\$	1011
			50	08	AE	D0	0049B	MOVL	IOSB, STATUS_2	
			11		50	E8	0049F	BLBS	STATUS_2, 19\$	1012
					50	DD	004A2	18\$: PUSHL	STATUS_2	1014
					7E	D4	004A4	CLRL	-(SP)	
					8F	DD	004A6	PUSHL	#INPSMB\$ ENTFIL	
		00000000G	00		03	FB	004AC	CALLS	#3, LIB\$SIGNAL	
			04	FDC4	C6	E8	004B3	19\$: BLBS	INPUT_RAB+8, 21\$	1019
			50		01	D0	004B8	20\$: MOVL	#1, R0	
						04	004BB	RET		
					50	D4	004BC	21\$: CLRL	R0	1021
					04	004BE	RET			

; Routine Size: 1215 bytes, Routine Base: CODE + 0410


```
: 918 1022 1 ROUTINE GET_RECORD=
: 919 1023 1
: 920 1024 1 ++
: 921 1025 1
: 922 1026 1 FUNCTIONAL DESCRIPTION:
: 923 1027 1 This routine gets the next record from the input stream.
: 924 1028 1
: 925 1029 1 INPUT PARAMETERS:
: 926 1030 1 NONE
: 927 1031 1
: 928 1032 1 IMPLICIT INPUTS:
: 929 1033 1 NONE
: 930 1034 1
: 931 1035 1 OUTPUT PARAMETERS:
: 932 1036 1 NONE
: 933 1037 1
: 934 1038 1 IMPLICIT OUTPUTS:
: 935 1039 1 NONE
: 936 1040 1
: 937 1041 1 ROUTINE VALUE:
: 938 1042 1 Completion status.
: 939 1043 1
: 940 1044 1 SIDE EFFECTS:
: 941 1045 1 NONE
: 942 1046 1
: 943 1047 1 --
: 944 1048 1
: 945 1049 2 BEGIN
: 946 1050 2 IF .CARD_CHANNEL NEQ 0
: 947 1051 2 THEN
: 948 1052 3 BEGIN
: 949 1053 3 LOCAL
: 950 1054 3 STATUS;
: 951 1055 3
: 952 1056 3
: 953 1057 3 IF .FLAGS[V_SECOND_BUFFER]
: 954 1058 3 THEN
: 955 1059 4 BEGIN
: 956 1060 4
: 957 1061 4 ! The second buffer had the pending read. Wait for it to complete
: 958 1062 4 ! and examine the IOSB for status. Logically translate an EOF card
: 959 1063 4 ! to an EOJ command.
: 960 1064 4 !
: 961 1065 4 $WAITFR(EFN=K_EFN_B);
: 962 1066 4 IF .CARD_IOSB_B[0] EQL SSS_ENDOFFILE
: 963 1067 4 THEN
: 964 1068 5 BEGIN
: 965 1069 5 INPUT_RAB[RAB$L_STS] = SSS_NORMAL;
: 966 1070 5 INPUT_RAB[RAB$W_RSZ] = %CHARCOUNT('$ EOJ');
: 967 1071 5 INPUT_RAB[RAB$L_RBF] = UPLIT BYTE('$ EOJ');
: 968 1072 5 END
: 969 1073 4 ELSE IF NOT .CARD_IOSB_B[0]
: 970 1074 4 THEN
: 971 1075 4 FILE_ERROR(
: 972 1076 4 INPSMB$ FACILITY^16 + SHRS_READERR + STSSK_SEVERE,
: 973 1077 4 INPUT_FAB,
: 974 1078 4 .CARD_IOSB_B[0])
```



```

: 975      1079 4      ELSE
: 976      1080 5      BEGIN
: 977      1081 5      INPUT_RAB[RAB$S_STS] = .CARD_IOSB-B[0];
: 978      1082 5      INPUT_RAB[RAB$W_RSZ] = .CARD_IOSB-B[1];
: 979      1083 5      INPUT_RAB[RAB$L_RBF] = INPUT_UBF + 80;
: 980      1084 4      END;
: 981      1085 4
: 982      1086 4
: 983      1087 4      ! Start a read in the first buffer.
: 984      1088 4      !
: 985      P 1089 4      STATUS = $QIO(
: 986      P 1090 4      EFN=K_EFN_A,
: 987      P 1091 4      FUNC=IOS_READLBLK,
: 988      P 1092 4      CHAN=.CARD_CHANNEL,
: 989      P 1093 4      IOSB=CARD_IOSB_A,
: 990      P 1094 4      P1=INPUT_UBF,
: 991      1095 4      P2=80);
: 992      1096 4      FLAGS[V_SECOND_BUFFER] = FALSE;
: 993      1097 4      END
: 994      1098 3      ELSE
: 995      1099 4      BEGIN
: 996      1100 4
: 997      1101 4      ! The first buffer had the pending read. Wait for it to complete
: 998      1102 4      ! and examine the IOSB for status. Logically translate an EOF card
: 999      1103 4      ! to an EOJ command.
: 1000     1104 4      !
: 1001     1105 4      $WAITFR(EFN=K_EFN_A);
: 1002     1106 4      IF .CARD_IOSB-A[0] EQL SSS_ENDOFFILE
: 1003     1107 4      THEN
: 1004     1108 5      BEGIN
: 1005     1109 5      INPUT_RAB[RAB$S_STS] = SSS_NORMAL;
: 1006     1110 5      INPUT_RAB[RAB$W_RSZ] = %CHARCOUNT('$ EOJ');
: 1007     1111 5      INPUT_RAB[RAB$L_RBF] = UPLIT BYTE('$ EOJ');
: 1008     1112 5      END
: 1009     1113 4      ELSE IF NOT .CARD_IOSB-A[0]
: 1010     1114 4      THEN
: 1011     1115 4      FILE_ERROR(
: 1012     1116 4      INPSMB$ FACILITY*16 + SHR$_READERR + STSSK_SEVERE,
: 1013     1117 4      INPUT_FAB,
: 1014     1118 4      .CARD_IOSB-A[0])
: 1015     1119 4      ELSE
: 1016     1120 5      BEGIN
: 1017     1121 5      INPUT_RAB[RAB$S_STS] = .CARD_IOSB-A[0];
: 1018     1122 5      INPUT_RAB[RAB$W_RSZ] = .CARD_IOSB-A[1];
: 1019     1123 5      INPUT_RAB[RAB$L_RBF] = INPUT_UBF;
: 1020     1124 4      END;
: 1021     1125 4
: 1022     1126 4
: 1023     1127 4      ! Start a read in the second buffer.
: 1024     1128 4      !
: 1025     P 1129 4      STATUS = $QIO(
: 1026     P 1130 4      EFN=K_EFN_B,
: 1027     P 1131 4      FUNC=IOS_READLBLK,
: 1028     P 1132 4      CHAN=.CARD_CHANNEL,
: 1029     P 1133 4      IOSB=CARD_IOSB_B,
: 1030     P 1134 4      P1=INPUT_UBF + 80,
: 1031     1135 4      P2=80);
```



```
1032 1136 4      FLAGS[V_SECOND_BUFFER] = TRUE;
1033 1137      END;
1034 1138
1035 1139
1036 1140      ! Check status of the $QIO.
1037 1141
1038 1142      IF NOT .STATUS
1039 1143      THEN
1040 1144          FILE_ERROR(
1041 1145              INPSMB$ FACILITY^16 + SHR$_READERR + STS$_SEVERE,
1042 1146              INPUT_FAB,
1043 1147              .STATUS);
1044 1148
1045 1149
1046 1150      ! Note that an input operation has completed, for the periodic timer.
1047 1151
1048 1152      INPUT_COMPLETIONS = .INPUT_COMPLETIONS + 1;
1049 1153      END
1050 1154      ELSE
1051 1155          BEGIN
1052 1156              IF NOT $GET(RAB=INPUT_RAB)
1053 1157              THEN
1054 1158                  IF .INPUT_RAB[RAB$_STS] NEQ RMS$_EOF
1055 1159                  THEN
1056 1160                      FILE_ERROR(
1057 1161                          INPSMB$ FACILITY^16 + SHR$_READERR + STS$_SEVERE,
1058 1162                          INPUT_FAB,
1059 1163                          .INPUT_RAB[RAB$_STS], .INPUT_RAB[RAB$_STV]);
1060 1164
1061 1165          END;
1062 1166
1063 1167      .INPUT_RAB[RAB$_STS]
1064 1168      END;
```

```
4A 4F 45 20 24 008CF P.ABY: .ASCII \ $ EOJ\
4A 4F 45 20 24 008D4 P.ABZ: .ASCII \ $ EOJ\
```

```
.EXTRN SYSS$WAITFR, SYSS$GET
```

```
003C 00000 GET_RECORD:
```

```
55 00000000G 00 9E 00002 .WORD Save R2,R3,R4,R5 : 1022
54 0000V CF 9E 00009 MOVAB SYSS$QIO, R5
53 00000000G 00 9E 0000E MOVAB FILE_ERROR, R4
52 0000' CF 9E 00015 MOVAB SYSS$WAITFR, R3
A4 A2 B5 0001A MOVAB INPUT_RAB+8, R2
03 12 0001D TSTW CARD_CHANNEL : 1050
00E6 31 0001F BNEQ 1$
01 E1 00022 BRW 11$
65 04E0 C2 02 DD 00028 BBC #1, FLAGS, 5$ : 1057
63 01 FB 0002A PUSHL #2 : 1065
50 04F0 C2 3C 0002D CALLS #1, SYSS$WAITFR
0870 8F 50 B1 00032 MOVZWL CARD_IOSB_B, R0 : 1066
OE 12 00037 CMPW R0, #2160
62 01 D0 00039 BNEQ 2$
MOVL #1, INPUT_RAB+8 : 1069
```

1A	A2		05	B0	0003C	MOVW	#5, INPUT_RAB+34	1070
20	A2	B3	AF	9E	00040	MOVAB	P.ABY, INPUT_RAB+40	1071
			22	11	00045	BRB	4\$	1066
	10		50	E8	00047	BLBS	R0, 3\$	1073
			50	DD	0004A	PUSHL	R0	1078
		A8	A2	9F	0004C	PUSHAB	INPUT_FAB	1075
	64	00000000*	8F	DD	0004F	PUSHL	#<<<INPSMB\$ FACILITY@16>+4272>+4>	1076
			03	FB	00055	CALLS	#3, FILE_ERROR	
			0F	11	00058	BRB	4\$	1075
	62		50	D0	0005A	MOVL	R0, INPUT_RAB+8	1081
1A	A2	04F2	C2	B0	0005D	MOVW	CARD_IOSB_B+2, INPUT_RAB+34	1082
20	A2	01EC	C2	9E	00063	MOVAB	INPUT_UBF+80, INPUT_RAB+40	1083
			7E	7C	00069	CLRQ	-(SP)	1095
			7E	7C	0006B	CLRQ	-(SP)	
	7E	50	8F	9A	0006D	MOVZBL	#80, -(SP)	
		019C	C2	9F	00071	PUSHAB	INPUT_UBF	
			7E	7C	00075	CLRQ	-(SP)	
		04E8	C2	9F	00077	PUSHAB	CARD_IOSB_A	
			21	DD	0007B	PUSHL	#33	
	7E	A4	A2	3C	0007D	MOVZWL	CARD_CHANNEL, -(SP)	
			01	DD	00081	PUSHL	#1	
04E0	65		0C	FB	00083	CALLS	#12, SYSSQIO	
	C2		02	8A	00086	BICB2	#2, FLAGS	1096
			64	11	0008B	BRB	9\$	1057
			01	DD	0008D	PUSHL	#1	1105
	63		01	FB	0008F	CALLS	#1, SYSSWAITFR	
	50	04E8	C2	3C	00092	MOVZWL	CARD_IOSB_A, R0	1106
0870	8F		50	B1	00097	CMPW	R0, #2160	
			0F	12	0009C	BNEQ	6\$	
	62		01	D0	0009E	MOVL	#1, INPUT_RAB+8	1109
1A	A2		05	B0	000A1	MOVW	#5, INPUT_RAB+34	1110
20	A2	FF52	CF	9E	000A5	MOVAB	P.ABZ, INPUT_RAB+40	1111
			22	11	000AB	BRB	8\$	1106
	10		50	E8	000AD	BLBS	R0, 7\$	1113
			50	DD	000B0	PUSHL	R0	1118
		A8	A2	9F	000B2	PUSHAB	INPUT_FAB	1115
	64	00000000*	8F	DD	000B5	PUSHL	#<<<INPSMB\$ FACILITY@16>+4272>+4>	1116
			03	FB	000BB	CALLS	#3, FILE_ERROR	
			0F	11	000BE	BRB	8\$	1115
	62		50	D0	000C0	MOVL	R0, INPUT_RAB+8	1121
1A	A2	04EA	C2	B0	000C3	MOVW	CARD_IOSB_A+2, INPUT_RAB+34	1122
20	A2	019C	C2	9E	000C9	MOVAB	INPUT_UBF, INPUT_RAB+40	1123
			7E	7C	000CF	CLRQ	-(SP)	1135
			7E	7C	000D1	CLRQ	-(SP)	
	7E	50	8F	9A	000D3	MOVZBL	#80, -(SP)	
		01EC	C2	9F	000D7	PUSHAB	INPUT_UBF+80	
			7E	7C	000DB	CLRQ	-(SP)	
		04F0	C2	9F	000DD	PUSHAB	CARD_IOSB_B	
			21	DD	000E1	PUSHL	#33	
	7E	A4	A2	3C	000E3	MOVZWL	CARD_CHANNEL, -(SP)	
			02	DD	000E7	PUSHL	#2	
04E0	65		0C	FB	000E9	CALLS	#12, SYSSQIO	
	C2		02	88	000EC	BISB2	#2, FLAGS	1136
	0E		50	E8	000F1	BLBS	STATUS, 10\$	1142
			50	DD	000F4	PUSHL	STATUS	1147
		A8	A2	9F	000F6	PUSHAB	INPUT_FAB	1144
		00000000*	8F	DD	000F9	PUSHL	#<<<INPSMB\$ FACILITY@16>+4272>+4>	1145

INPSMB
V04-000

Input symbiont

G 8
16-Sep-1984 01:43:25
14-Sep-1984 12:35:25

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[INPSMB.SRC]INPSMB.B32;1

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64		03	FB	000FF		CALLS	#3, FILE ERROR	:		
	04E4	C2	D6	00102	10\$:	INCL	INPUT_COMPLETIONS	:	1152	
		25	11	00106		BRB	12\$:	1050	
		F8	A2	9F	00108	11\$:	PUSHAB	INPUT_RAB	:	1156
00000000G	00	01	FB	0010B		CALLS	#1, SYSSGET	:		
	18	50	E8	00112		BLBS	R0, 12\$:		
0001827A	8F	62	D1	00115		CMPL	INPUT_RAB+8, #98938	:	1158	
		0F	13	0011C		BEQL	12\$:		
	7E	62	7D	0011E		MOVQ	INPUT_RAB+8, -(SP)	:	1163	
		A8	A2	9F	00121	PUSHAB	INPUT_FAB	:	1160	
		00000000*	8F	DD	00124	PUSHL	#<<<INPSMB\$ FACILITY@16>+4272>+4>	:	1161	
			04	FB	0012A	CALLS	#4, FILE ERROR	:		
64		62	D0	0012D	12\$:	MOVL	INPUT_RAB+8, R0	:	1168	
50			04	00130		RET		:		

; Routine Size: 305 bytes, Routine Base: CODE + 08D9

```
: 1066      1169 1 ROUTINE IDENTIFY_COMMAND_VERB(PASSWORD,LINE_DESC)=
: 1067      1170 1
: 1068      1171 1 ++
: 1069      1172 1
: 1070      1173 1 FUNCTIONAL DESCRIPTION:
: 1071      1174 1     This routine identifies a record that contains a valid JOB, EOJ, or
: 1072      1175 1     PASSWORD command verb.
: 1073      1176 1
: 1074      1177 1 INPUT PARAMETERS:
: 1075      1178 1     PASSWORD      - True if a PASSWORD command is valid.
: 1076      1179 1     LINE_DESC     - Address of a quadword that receives a descriptor for
: 1077      1180 1     the portion of the record following the dollar sign,
: 1078      1181 1     if the routine value is true.
: 1079      1182 1
: 1080      1183 1 IMPLICIT INPUTS:
: 1081      1184 1     INPUT_RAB    - Describes the current record.
: 1082      1185 1
: 1083      1186 1 OUTPUT PARAMETERS:
: 1084      1187 1     NONE
: 1085      1188 1
: 1086      1189 1 IMPLICIT OUTPUTS:
: 1087      1190 1     NONE
: 1088      1191 1
: 1089      1192 1 ROUTINE VALUE:
: 1090      1193 1     K_NONE if no significant verb (false value).
: 1091      1194 1     K_JOB, K_EOJ, K_PASSWORD if recognized (true value).
: 1092      1195 1
: 1093      1196 1 SIDE EFFECTS:
: 1094      1197 1     NONE
: 1095      1198 1
: 1096      1199 1 --
: 1097      1200 1
: 1098      1201 2 BEGIN
: 1099      1202 2 MAP
: 1100      1203 2     LINE_DESC:      REF BBLOCK;           ! Pointer to line descriptor
: 1101      1204 2 LOCAL
: 1102      1205 2     TPA_PARAM:      BBLOCK[TPASK_LENGTH0], ! TPARSE parameter block
: 1103      1206 2     UPCASE_BUFFER: BBLOCK[%ALLOCATION(INPUT_UBF)];
: 1104      1207 2
: 1105      1208 2
: 1106      1209 2 ! Initialize TPARSE parameter block.
: 1107      1210 2
: 1108      1211 2 CH$FILL(0, %ALLOCATION(TPA_PARAM), TPA_PARAM);
: 1109      1212 2 TPA_PARAM[TPASL_COUNT] = TPASK_COUNT0;
: 1110      1213 2 TPA_PARAM[TPASL_STRINGCNT] = .INPUT_RAB[RAB$W_RSZ];
: 1111      1214 2 TPA_PARAM[TPASL_STRINGPTR] = .INPUT_RAB[RAB$R_RBF];
: 1112      1215 2
: 1113      1216 2
: 1114      1217 2 ! Scan the line for a leading dollar sign.
: 1115      1218 2
: 1116      1219 2 IF LIB$TPARSE(TPA_PARAM, DOLLAR_STATES, DOLLAR_KEYS)
: 1117      1220 2 THEN
: 1118      1221 2     BEGIN
: 1119      1222 2
: 1120      1223 2     ! Initialize the line descriptor to describe the portion of the line
: 1121      1224 2     ! following the leading dollar sign.
: 1122      1225 2     !
```



```
: 1123      1226 3 LINE_DESC[DSC$W_LENGTH] = .TPA_PARAM[TPA$L_STRINGCNT];
: 1124      1227 3 LINE_DESC[DSC$B_DTYPE] = DSC$K_DTYPE_T;
: 1125      1228 3 LINE_DESC[DSC$B_CLASS] = DSC$K_CLASS_S;
: 1126      1229 3 LINE_DESC[DSC$A_POINTER] = .TPA_PARAM[TPA$L_STRINGPTR];
: 1127      1230 3
: 1128      1231 3
: 1129      1232 3 ! Uppcase the remaining portion of the line into the temporary buffer.
: 1130      1233 3 !
: 1131      1234 3 MOVT(
: 1132      1235 3     TPA_PARAM[TPA$L_STRINGCNT], .TPA_PARAM[TPA$L_STRINGPTR],
: 1133      1236 3     %REF(0),
: 1134      1237 3     LIB$AB_UPCASE,
: 1135      1238 3     TPA_PARAM[TPA$L_STRINGCNT], UPCASE_BUFFER);
: 1136      1239 3 TPA_PARAM[TPA$L_STRINGPTR] = UPCASE_BUFFER;
: 1137      1240 3
: 1138      1241 3
: 1139      1242 3 ! Scan the line for an unabbreviated 'JOB'.
: 1140      1243 3 !
: 1141      1244 3 IF LIB$TPARSE(TPA_PARAM, JOB_STATES, JOB_KEYS)
: 1142      1245 3 THEN
: 1143      1246 3     RETURN K_JOB;
: 1144      1247 3
: 1145      1248 3
: 1146      1249 3 ! Scan the line for an unabbreviated 'EOJ'.
: 1147      1250 3 !
: 1148      1251 3 IF LIB$TPARSE(TPA_PARAM, EOJ_STATES, EOJ_KEYS)
: 1149      1252 3 THEN
: 1150      1253 3     RETURN K_EOJ;
: 1151      1254 3
: 1152      1255 3
: 1153      1256 3 ! If a PASSWORD command is valid, scan the line for a possibly abbreviated
: 1154      1257 3 ! 'PASSWORD'.
: 1155      1258 3 !
: 1156      1259 3 IF .PASSWORD
: 1157      1260 3 THEN
: 1158      1261 3     BEGIN
: 1159      1262 3     TPA_PARAM[TPA$V_ABBREV] = TRUE;
: 1160      1263 3     IF LIB$TPARSE(TPA_PARAM, PASSWORD_STATES, PASSWORD_KEYS)
: 1161      1264 3     THEN
: 1162      1265 3     RETURN K_PASSWORD;
: 1163      1266 3     END;
: 1164      1267 3 END;
: 1165      1268 3
: 1166      1269 3
: 1167      1270 2 K NONE
: 1168      1271 1 END;
```

007C 00000 IDENTIFY COMMAND VERB:

56	00000000G	00	9E	00002	WORD	Save R2,R3,R4,R5,R6	: 1169
5E	FF3C	CE	9E	00009	MOVAB	LIB\$TPARSE, R6	:
6E		00	2C	0000E	MOVAB	-196(SP), SP	:
	DC	AD		00013	MOVC5	#0, (SP), #0, #36, TPA_PARAM	: 1211

00000000G 00

00

DC	AD	08	D0	00015	MOVL	#8, TPA_PARAM	:	1212	
E4	AD	0000'	CF	3C	00019	MOVZWL	INPUT_RAB+34, TPA_PARAM+8	:	1213
E8	AD	0000'	CF	D0	0001F	MOVL	INPUT_RAB+40, TPA_PARAM+12	:	1214
		0000V	CF	9F	00025	PUSHAB	DOLLAR_KEYS	:	1219
		0000V	CF	9F	00029	PUSHAB	DOLLAR_STATES	:	
		DC	AD	9F	0002D	PUSHAB	TPA_PARAM	:	
	66		03	FB	00030	CALLS	#3, LIB\$TPARSE	:	
	6C		50	E9	00033	BLBC	R0, 3\$:	
	50	08	AC	D0	00036	MOVL	LINE_DESC, R0	:	1226
	60	E4	AD	B0	0003A	MOVW	TPA_PARAM+8, (R0)	:	
02	A0	010E	8F	B0	0003E	MOVW	#270, 2(R0)	:	1227
04	A0	E8	AD	D0	00044	MOVL	TPA_PARAM+12, 4(R0)	:	1229
E8	BD	E4	AD	2E	00049	MOVTC	TPA_PARAM+8, @TPA_PARAM+12, #0, -	:	1234
	6E	E4	AD		00054		LIB\$AB_UPCASE, TPA_PARAM+8, UPCASE_BUFFER	:	
E8	AD		6E	9E	00057	MOVAB	UPCASE_BUFFER, TPA_PARAM+12	:	1239
		0000V	CF	9F	0005B	PUSHAB	JOB_KEYS	:	1244
		0000V	CF	9F	0005F	PUSHAB	JOB_STATES	:	
		DC	AD	9F	00063	PUSHAB	TPA_PARAM	:	
	66		03	FB	00066	CALLS	#3, LIB\$TPARSE	:	
	04		50	E9	00069	BLBC	R0, 1\$:	
	50		01	D0	0006C	MOVL	#1, R0	:	1246
		0000V	CF	9F	00070	RET		:	
		0000V	CF	9F	00074	PUSHAB	EOJ_KEYS	:	1251
		DC	AD	9F	00078	PUSHAB	EOJ_STATES	:	
	66		03	FB	0007B	PUSHAB	TPA_PARAM	:	
	04		50	E9	0007E	CALLS	#3, LIB\$TPARSE	:	
	50		03	D0	00081	BLBC	R0, 2\$:	
			04	00084	MOVL	#3, R0	:	1253	
	19	04	AC	E9	00085	RET		:	
E0	AD		02	88	00089	BLBC	PASSWORD, 3\$:	1259
		0000V	CF	9F	0008D	BISB2	#2, TPA_PARAM+4	:	1262
		0000V	CF	9F	00091	PUSHAB	PASSWORD_KEYS	:	1263
		DC	AD	9F	00095	PUSHAB	PASSWORD_STATES	:	
	66		03	FB	00098	PUSHAB	TPA_PARAM	:	
	04		50	E9	0009B	CALLS	#3, LIB\$TPARSE	:	
	50		05	D0	0009E	BLBC	R0, 3\$:	
			04	000A1	MOVL	#5, R0	:	1265	
			50	D4	000A2	RET		:	
			04	000A4	CLRL	R0	:	1271	
					RET		:		

; Routine Size: 165 bytes, Routine Base: CODE + 0A0A


```
: 1170 1272 1 ROUTINE GET_LINE_CONTINUATION(GET_STR,PROMPT_STR,OUT_LEN)=
: 1171 1273 1
: 1172 1274 1 ++
: 1173 1275 1
: 1174 1276 1 FUNCTIONAL DESCRIPTION:
: 1175 1277 1 This routine is the continuation routine for the CLISDCL_PARSE calls.
: 1176 1278 1
: 1177 1279 1 INPUT PARAMETERS:
: 1178 1280 1 As for LIB$GET_INPUT.
: 1179 1281 1
: 1180 1282 1 IMPLICIT INPUTS:
: 1181 1283 1 NONE
: 1182 1284 1
: 1183 1285 1 OUTPUT PARAMETERS:
: 1184 1286 1 NONE
: 1185 1287 1
: 1186 1288 1 IMPLICIT OUTPUTS:
: 1187 1289 1 NONE
: 1188 1290 1
: 1189 1291 1 ROUTINE VALUE:
: 1190 1292 1 As for LIB$GET_INPUT.
: 1191 1293 1
: 1192 1294 1 SIDE EFFECTS:
: 1193 1295 1 NONE
: 1194 1296 1
: 1195 1297 1 --
: 1196 1298 1
: 1197 1299 2 BEGIN
: 1198 1300 2 MAP
: 1199 1301 2 LOCAL GET_STR: REF BBLOCK; ! Pointer to descriptor
: 1200 1302 2 LOCAL LINE_DESC: BBLOCK[DSC$C_S_BLN], ! Scratch descriptor for line
: 1201 1303 2 STATUS; ! Status return
: 1202 1304 2
: 1203 1305 2
: 1204 1306 2
: 1205 1307 2 ! Get the next input line, propagating errors to CLISDCL_PARSE.
: 1206 1308 2
: 1207 1309 2 STATUS = GET_RECORD();
: 1208 1310 2 IF NOT .STATUS THEN RETURN .STATUS;
: 1209 1311 2
: 1210 1312 2
: 1211 1313 2 ! Ensure that the continuation line is not a JOB command, so that an error in
: 1212 1314 2 ! a previous line cannot result in skipping a job.
: 1213 1315 2
: 1214 1316 2 CURRENT_COMMAND = IDENTIFY_COMMAND_VERB(FALSE, LINE_DESC);
: 1215 1317 2 IF .CURRENT_COMMAND EQL K_JOB THEN RETURN INPSMB$_INVCONT;
: 1216 1318 2
: 1217 1319 2
: 1218 1320 2 ! Copy the record back to DCL and set the return length. This routine makes
: 1219 1321 2 ! the simplifying assumptions that DCL passes a static string and always
: 1220 1322 2 ! passes three parameters.
: 1221 1323 2
: 1222 1324 2 CH$COPY(
: 1223 1325 2 .INPUT_RAB[RAB$W_RSZ], .INPUT_RAB[RAB$L_RBF],
: 1224 1326 2 %C,
: 1225 1327 2 .GET_STR[DSC$W_LENGTH], .GET_STR[DSC$A_POINTER]);
: 1226 1328 2 (.OUT_LEN)<0,16> = .INPUT_RAB[RAB$W_RSZ];
```

INPSMB
V04-000

Input symbiont

L 8
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```
: 1227      1329  2
: 1228      1330  2
: 1229      1331  2 ! Return success.
: 1230      1332  2 !
: 1231      1333  2 SS$ NORMAL
: 1232      1334  1 END;
```

```
                                003C 00000 GET_LINE_CONTINUATION:
                                .WORD  Save R2,R3,R4,R5
                                SUBL2  #8, SP
                                CALLS  #0, GET_RECORD
                                BLBC   STATUS, 2$
                                PUSHL  SP
                                CLRL   -(SP)
                                CALLS  #2, IDENTIFY_COMMAND_VERB
                                MOVL   R0, CURRENT_COMMAND
                                CMPL   CURRENT_COMMAND, #1
                                BNEQ   1$
                                MOVL   #INPSMB$_INVCONT, R0
                                RET
                                MOVL   GET_STR, R0
                                MOVC5  INPUT_RAB+34, @INPUT_RAB+40, #32, (R0), -
                                @4(R0)
                                MOVW   INPUT_RAB+34, @OUT_LEN
                                MOVL   #1, R0
                                RET
                                04 00042 2$:

                                1272
                                1309
                                1310
                                1316
                                1317
                                1327
                                1328
                                1334
```

FE20	5E	08	C2	00002	
	CF	00	FB	00005	
	35	50	E9	0000A	
		5E	DD	0000D	
		7E	D4	0000F	
FF45	CF	02	FB	00011	
0000'	CF	50	D0	00016	
	01	0000'	C7	D1	0001B
			08	12	00020
	50	00000000G	8F	D0	00022
			04	00029	
60	50	04	AC	D0	0002A 1\$:
20	DF	0000'	CF	2C	0002E
		04	B0		00037
0C	BC	0000'	CF	B0	00039
	50		01	D0	0003F
			04	00042	2\$:

; Routine Size: 67 bytes, Routine Base: CODE + 0AAF


```
: 1234      1335 1 ROUTINE TIMER_AST: NOVALUE=
: 1235      1336 1
: 1236      1337 1 ++
: 1237      1338 1
: 1238      1339 1 FUNCTIONAL DESCRIPTION:
: 1239      1340 1     This routine is entered on the expiration of the periodic timer to
: 1240      1341 1     determine if any input operations have completed in that interval,
: 1241      1342 1     and to exit the symbiont if appropriate.
: 1242      1343 1
: 1243      1344 1 INPUT PARAMETERS:
: 1244      1345 1     Standard AST routine parameters (not used).
: 1245      1346 1
: 1246      1347 1 IMPLICIT INPUTS:
: 1247      1348 1     NONE
: 1248      1349 1
: 1249      1350 1 OUTPUT PARAMETERS:
: 1250      1351 1     NONE
: 1251      1352 1
: 1252      1353 1 IMPLICIT OUTPUTS:
: 1253      1354 1     NONE
: 1254      1355 1
: 1255      1356 1 ROUTINE VALUE:
: 1256      1357 1     NONE
: 1257      1358 1
: 1258      1359 1 SIDE EFFECTS:
: 1259      1360 1     NONE
: 1260      1361 1
: 1261      1362 1 --
: 1262      1363 1
: 1263      1364 2 BEGIN
: 1264      1365 2
: 1265      1366 2 ! If there have been no input completions since the last expiration of the timer
: 1266      1367 2 ! and we are not processing a job, exit the symbiont.
: 1267      1368 2
: 1268      1369 2 IF .INPUT_COMPLETIONS EQL 0 AND .OUTPUT_FAB[FAB$W_IFI] EQL 0
: 1269      1370 2 THEN
: 1270      1371 2     $EXIT(CODE=SS$_NORMAL);
: 1271      1372 2
: 1272      1373 2
: 1273      1374 2 ! Set up the next interval.
: 1274      1375 2
: 1275      1376 2 INPUT_COMPLETIONS = 0;
: 1276      1377 2 $SETIMR(DAYTIM=PERIODIC_INTERVAL, ASTADR=TIMER_AST);
: 1277      1378 1 END;
```

.EXTRN SYS\$EXIT

```
0000 00000 TIMER_AST:
0000' CF D5 00002 .WORD Save nothing
OF 12 00006 TSTL INPUT_COMPLETIONS
0000' CF B5 00008 BNEQ 1$
09 12 0000C TSTW OUTPUT_FAB+2
01 DD 0000E BNEQ 1$
01 FB 00010 PUSHL #1
CALLS #1, SYS$EXIT
```

```
: 1335
: 1369
:
:
: 1371
:
```

INPSMB
V04-000

Input symbiont

N 8
16-Sep-1984 01:43:25
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0000'	CF	D4	00017	1\$:	CLRL	INPUT_COMPLETIONS
	7E	D4	0001B		CLRL	-(SP)-
E0	AF	9F	0001D		PUSHAB	TIMER_AST
F4EA	CF	9F	00020		PUSHAB	PERIODIC_INTERVAL
	7E	D4	00024		CLRL	-(SP)
	04	FB	00026		CALLS	#4, SYS\$SETIMR
		04	0002D		RET	

: 1376
: 1377
:
:
:
:
: 1378

; Routine Size: 46 bytes, Routine Base: CODE + 0AF2


```
: 1279 1379 1 ROUTINE FILE_ERROR(MESSAGE,FAB,EXTRA1,EXTRA2): NOVALUE=
: 1280 1380 1
: 1281 1381 1 ++
: 1282 1382 1
: 1283 1383 1 FUNCTIONAL DESCRIPTION:
: 1284 1384 1 This routine signals a file-related message.
: 1285 1385 1
: 1286 1386 1 INPUT PARAMETERS:
: 1287 1387 1 MESSAGE - Message code for first message
: 1288 1388 1 FAB - Pointer to FAB, from which file name
: 1289 1389 1 will be obtained
: 1290 1390 1 Up to two additional input parameters are additional messages.
: 1291 1391 1
: 1292 1392 1 IMPLICIT INPUTS:
: 1293 1393 1 NONE
: 1294 1394 1
: 1295 1395 1 OUTPUT PARAMETERS:
: 1296 1396 1 NONE
: 1297 1397 1
: 1298 1398 1 IMPLICIT OUTPUTS:
: 1299 1399 1 NONE
: 1300 1400 1
: 1301 1401 1 ROUTINE VALUE:
: 1302 1402 1 NONE
: 1303 1403 1
: 1304 1404 1 SIDE EFFECTS:
: 1305 1405 1 The messages are signalled.
: 1306 1406 1
: 1307 1407 1 --
: 1308 1408 1
: 1309 1409 2 BEGIN
: 1310 1410 2 MAP
: 1311 1411 2 FAB: REF BBLOCK; ! Pointer to FAB
: 1312 1412 2 LOCAL
: 1313 1413 2 NAM: REF BBLOCK, ! Pointer to NAM block
: 1314 1414 2 DESC: VECTOR[2], ! Descriptor for file name
: 1315 1415 2 PARAM: VECTOR[6]; ! Signal parameter list
: 1316 1416 2 BUILTIN
: 1317 1417 2 ACTUALCOUNT,
: 1318 1418 2 CALLG;
: 1319 1419 2
: 1320 1420 2
: 1321 1421 2 ! Establish the file name to be printed. The resultant string, expanded
: 1322 1422 2 string, and filename string are examined in that order, and the first
: 1323 1423 2 one that is not null is used.
: 1324 1424 2
: 1325 1425 2 NAM = .FAB[FAB$L_NAM];
: 1326 1426 2 IF .NAM[NAM$B_RSC] NEQ 0
: 1327 1427 2 THEN
: 1328 1428 3 BEGIN
: 1329 1429 3 DESC[0] = .NAM[NAM$B_RSL];
: 1330 1430 3 DESC[1] = .NAM[NAM$B_RSA];
: 1331 1431 3 END
: 1332 1432 2 ELSE IF .NAM[NAM$B_ESL] NEQ 0
: 1333 1433 2 THEN
: 1334 1434 3 BEGIN
: 1335 1435 3 DESC[0] = .NAM[NAM$B_ESL];
```



```
1336 1436 3 DESC[1] = .NAM[NAM$$_ESA];
1337 1437 3 END
1338 1438 3 ELSE
1339 1439 3 BEGIN
1340 1440 3 DESC[0] = .FAB[FAB$$_FNS];
1341 1441 3 DESC[1] = .FAB[FAB$$_FNA];
1342 1442 3 END;
1343 1443 3
1344 1444 3
1345 1445 3 ! Initialize the signal parameter list.
1346 1446 3 !
1347 1447 3 PARAM[0] = 3; ! Parameter count
1348 1448 3 PARAM[1] = .MESSAGE; ! First message code
1349 1449 3 PARAM[2] = 1; ! FAO argument count
1350 1450 3 PARAM[3] = DESC; ! Filename descriptor
1351 1451 3 IF ACTUALCOUNT() GEQ 3
1352 1452 3 THEN
1353 1453 3 BEGIN
1354 1454 3 PARAM[0] = .PARAM[0] + 1; ! Increment parameter count
1355 1455 3 PARAM[4] = .EXTRA1; ! Next message code
1356 1456 3 END;
1357 1457 3 IF ACTUALCOUNT() GEQ 4
1358 1458 3 THEN
1359 1459 3 BEGIN
1360 1460 3 PARAM[0] = .PARAM[0] + 1; ! Increment parameter count
1361 1461 3 PARAM[5] = .EXTRA2; ! Next message code
1362 1462 3 END;
1363 1463 3
1364 1464 3
1365 1465 3 ! Finally, signal the messages.
1366 1466 3 !
1367 1467 3 CALLG(PARAM, LIB$$_SIGNAL);
1368 1468 3 END;
```

```
0000 00000 FILE_ERROR:
5E 20 C2 00002 .WORD Save nothing ; 1379
51 08 AC D0 00005 SUBL2 #32, SP ; 1425
50 28 A1 D0 00009 MOVL FAB, R1
03 03 A0 95 0000D MOVL 40(R1), NAM ; 1426
0C 13 00010 TSTB 3(NAM)
18 AE 03 A0 9A 00012 BEQL 1$ ; 1429
1C AE 04 A0 D0 00017 MOVZBL 3(NAM), DESC ; 1430
1B 11 0001C MOVL 4(NAM), DESC+4 ; 1426
0B A0 95 0001E 1$: TSTB 11(NAM) ; 1432
0C 13 00021 BEQL 2$
18 AE 0B A0 9A 00023 MOVZBL 11(NAM), DESC ; 1435
1C AE 0C A0 D0 00028 MOVL 12(NAM), DESC+4 ; 1436
0A 11 0002D BRB 3$ ; 1432
18 AE 34 A1 9A 0002F 2$: MOVZBL 52(R1), DESC ; 1440
1C AE 2C A1 D0 00034 MOVL 44(R1), DESC+4 ; 1441
6E 03 D0 00039 3$: MOVL #3, PARAM ; 1447
04 AE 04 AC D0 0003C MOVL MESSAGE, PARAM+4 ; 1448
```


INPSMB
V04-000

Input symbiont

D 9
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08	AE		01	D0	00041	MOVL	#1, PARAM+8	:	1449
0C	AE	18	AE	9E	00045	MOVAB	DESC, PARAM+12	:	1450
	03		6C	91	0004A	CMPB	(AP), #3	:	1451
			07	1F	0004D	BLSSU	4\$:	
			6E	D6	0004F	INCL	PARAM	:	1454
10	AE	0C	AC	D0	00051	MOVL	EXTRA1, PARAM+16	:	1455
	04		6C	91	00056	CMPB	(AP), #4	:	1457
			07	1F	00059	BLSSU	5\$:	
			6E	D6	0005B	INCL	PARAM	:	1460
14	AE	10	AC	D0	0005D	MOVL	EXTRA2, PARAM+20	:	1461
00000000G	00		6E	FA	00062	CALLG	PARAM, LIB\$SIGNAL	:	1467
			04	00069	5\$:	RET		:	1468

; Routine Size: 106 bytes, Routine Base: CODE + 0B20

```
: 1370 1469 1 ROUTINE MAIN_HANDLER_ACTION(MSG_DESC)=
: 1371 1470 1
: 1372 1471 1 !++
: 1373 1472 1
: 1374 1473 1 FUNCTIONAL DESCRIPTION:
: 1375 1474 1 This is an action routine for the $PUTMSG that issues a signalled
: 1376 1475 1 message to the system console. It writes the record to the operator
: 1377 1476 1 via OPCOM or via broadcast.
: 1378 1477 1
: 1379 1478 1 INPUT PARAMETERS:
: 1380 1479 1 MSG_DESC - Descriptor for message.
: 1381 1480 1
: 1382 1481 1 IMPLICIT INPUTS:
: 1383 1482 1 NONE
: 1384 1483 1
: 1385 1484 1 OUTPUT PARAMETERS:
: 1386 1485 1 NONE
: 1387 1486 1
: 1388 1487 1 IMPLICIT OUTPUTS:
: 1389 1488 1 NONE
: 1390 1489 1
: 1391 1490 1 ROUTINE VALUE:
: 1392 1491 1 FALSE, to signal $PUTMSG not to write the message.
: 1393 1492 1
: 1394 1493 1 SIDE EFFECTS:
: 1395 1494 1 NONE
: 1396 1495 1
: 1397 1496 1 --
: 1398 1497 1
: 1399 1498 2 BEGIN
: 1400 1499 2 MAP
: 1401 1500 2 MSG_DESC: REF BBLOCK; ! Descriptor for message text
: 1402 1501 2 LOCAL
: 1403 1502 2 LENGTH: WORD, ! Length of message, minimized
: 1404 1503 2 OPC_BUFFER: BBLOCK[$BYTEOFFSET(OPC$L_MS_TEXT) + 132], ! Buffer for OPCOM message
: 1405 1504 2 !
: 1406 1505 2 OPC_DESC: VECTOR[2], ! Descriptor for message buffer
: 1407 1506 2 STATUS; ! Status return
: 1408 1507 2
: 1409 1508 2
: 1410 1509 2 ! Set up the OPCOM message buffer.
: 1411 1510 2
: 1412 1511 2 OPC_BUFFER[OPC$B_MS_TYPE] = OPC$ RQ_RQST;
: 1413 1512 2 OPC_BUFFER[OPC$B_MS_TARGET] = OPC$M_NM_CARDS;
: 1414 1513 2 OPC_BUFFER[OPC$W_MS_STATUS] = 0;
: 1415 1514 2 OPC_BUFFER[OPC$L_MS_RQSTID] = 0;
: 1416 1515 2 LENGTH = .MSG_DESC[DSC$W_LENGTH];
: 1417 1516 2 IF .LENGTH GTRU 132 THEN LENGTH = 132;
: 1418 1517 2 CH$MOVE(.LENGTH, .MSG_DESC[DSC$A_POINTER], OPC_BUFFER[OPC$L_MS_TEXT]);
: 1419 1518 2 OPC_DESC[0] = $BYTEOFFSET(OPC$L_MS_TEXT) + .LENGTH;
: 1420 1519 2 OPC_DESC[1] = OPC_BUFFER;
: 1421 1520 2
: 1422 1521 2
: 1423 1522 2 ! Try to send the message by OPCOM. If this fails, send a broadcast to the
: 1424 1523 2 ! system console.
: 1425 1524 2
: 1426 1525 2 STATUS = $SENDOPR(MSGBUF=OPC_DESC);
```



```
: 1427      1526 2 IF NOT .STATUS OR .STATUS EQL OPC$_NOPERATOR
: 1428      1527 2 THEN
: 1429      1528 2     $BRDCST(MSGBUF=.MSG_DESC, DEVNAM=$DESCRIPTOR('_OPA0:'));
: 1430      1529 2
: 1431      1530 2
: 1432      1531 2 ! Return FALSE, to signal $PUTMSG not to write the message.
: 1433      1532 2
: 1434      1533 2 FALSE
: 1435      1534 1 END;
```

```
3A 30 41 50 4F 5F 00B8A P.ACB: .ASCII \_OPA0:\
00000006 00B90 P.ACA: .LONG 6
00000000 00B94 .ADDRESS P.ACB
.EXTRN SYS$SNDOPR, SYS$BRDCST
```

```
00FC 0000C MAIN_HANDLER ACTION:
      5E      FF6C CE 9E 00002 .WORD Save R2,R3,R4,R5,R6,R7
08 AE      2003 8F 3C 00007 MOVAB -148(SP), SP
      0C      04 AE D4 0000D MOVZWL #8195, OPC_BUFFER
      57      04 AC D0 00010 CLRL OPC_BUFFER+4
      56      67 B0 00014 MOVL MSG_DESC, R7
0084 8F      56 B1 00017 MOVW (R7), LENGTH
      04      1B 0001C CMPW LENGTH, #132
      8F      9B 0001E BLEQU 1$
10 AE      04 B7 56 28 00022 MOVZBW #132, LENGTH
      6E      56 3C 00028 MOVW3 LENGTH, @4(R7), OPC_BUFFER+8
      6E      08 C0 0002B MOVZWL LENGTH, OPC_DESC
      AE      08 AE 9E 0002E ADDL2 #8, OPC_DESC
      04      7E D4 00033 MOVAB OPC_BUFFER, OPC_DESC+4
      04      AE 9F 00035 CLRL -(SP)
00000000G 00 02 FB 00038 PUSHAB OPC_DESC
      09      50 E9 0003F CALLS #2, SYS$SNDOPR
00058061 8F 50 D1 00042 BLBC STATUS, 2$
      10      20 DD 0004B 2$: CMPL STATUS, #360545
      7E      AF 9F 0004F BNEQ 3$
      A6      57 DD 00052 PUSHL #32
      04      04 FB 00054 CLRL -(SP)
      50      D4 0005B 3$: PUSHAB P.ACA
      04      04 0005D CALLS #4, SYS$BRDCST
      RET R7
      R0
      RET
```

; Routine Size: 94 bytes, Routine Base: CODE + 0B98

```
1437 1535 1 ROUTINE MAIN_HANDLER(SIG,MCH)=
1438 1536 1
1439 1537 1 !++
1440 1538 1
1441 1539 1 FUNCTIONAL DESCRIPTION:
1442 1540 1 This routine is the condition handler for the main routine. It
1443 1541 1 intercepts signals and writes the message to the operator.
1444 1542 1
1445 1543 1 INPUT PARAMETERS:
1446 1544 1 Standard VMS condition handler parameters.
1447 1545 1
1448 1546 1 IMPLICIT INPUTS:
1449 1547 1 NONE
1450 1548 1
1451 1549 1 OUTPUT PARAMETERS:
1452 1550 1 NONE
1453 1551 1
1454 1552 1 IMPLICIT OUTPUTS:
1455 1553 1 NONE
1456 1554 1
1457 1555 1 ROUTINE VALUE:
1458 1556 1 $$$_CONTINUE
1459 1557 1
1460 1558 1 SIDE EFFECTS:
1461 1559 1 If the condition is fatal, the image exits.
1462 1560 1
1463 1561 1 --
1464 1562 1
1465 1563 2 BEGIN
1466 1564 2 MAP
1467 1565 2 SIG: REF BBLOCK, ! Signal parameters
1468 1566 2 MCH: REF BBLOCK; ! Mechanism parameters
1469 1567 2 LOCAL
1470 1568 2 DESC: VECTOR[2], ! Descriptor for JOB command
1471 1569 2 MSGVEC: VECTOR[4]; ! $PUTMSG parameter vector
1472 1570 2
1473 1571 2
1474 1572 2 ! Print the JOB command that incurred the error, if any.
1475 1573 2
1476 1574 2 IF .JOB_LENGTH NEQ 0
1477 1575 2 THEN
1478 1576 3 BEGIN
1479 1577 3 DESC[0] = .JOB_LENGTH;
1480 1578 3 DESC[1] = JOB_BUFFER;
1481 1579 3 WHILE .DESC[0] GTR 0 DO
1482 1580 4 BEGIN
1483 1581 4 IF CH$RCHAR(.DESC[1] + .DESC[0] - 1) NEQ %C' ' THEN EXITLOOP;
1484 1582 4 DESC[0] = .DESC[0] - 1;
1485 1583 3 END;
1486 1584 3 MSGVEC[0] = 3;
1487 1585 3 MSGVEC[1] = INPSMB$_JOBCARD;
1488 1586 3 MSGVEC[2] = 1;
1489 1587 3 MSGVEC[3] = DESC;
1490 1588 3 $PUTMSG(MSGVEC=MSGVEC, ACTRTN=.PUTMSG_ACTION_ROUTINE);
1491 1589 2 END;
1492 1590 2
1493 1591 2
```



```
: 1494      1592 2 ! Adjust the signal parameter count to remove the PC and PSL, and call $PUTMSG
: 1495      1593 2 ! to issue the message.
: 1496      1594 2
: 1497      1595 2 SIG[CHFSL_SIG_ARGS] = .SIG[CHFSL_SIG_ARGS] - 2;
: 1498      1596 2 $PUTMSG(MSGVEC=.SIG, ACTRTN=.PUTMSG_ACTION_ROUTINE);
: 1499      1597 2
: 1500      1598 2
: 1501      1599 2 ! If the exception was fatal, exit the image. Otherwise, continue.
: 1502      1600 2
: 1503      1601 2 IF .BBLOCK[SIG[CHFSL_SIG_NAME], STSSV_SEVERITY] EQL STSSK_SEVERE
: 1504      1602 2 THEN
: 1505      1603 2     $EXIT(CODE=.SIG[CHFSL_SIG_NAME] OR STSM_INHIB_MSG);
: 1506      1604 2
: 1507      1605 2
: 1508      1606 2 SSS_CONTINUE
: 1509      1607 1 END;
```

.EXTRN SYSS\$PUTMSG

```
001C 00000 MAIN_HANDLER:
      54      0000' CF 9E 00002      .WORD      Save R2,R3,R4      : 1535
      53 00000000G 00 9E 00007      MOVAB      PUTMSG_ACTION_ROUTINE, R4
      5E      18 C2 0000E      MOVAB      SYSS$PUTMSG, R3
      50      AC A4 D0 00011      SUBL2      #24, SP
      10 AE      3D 13 00015      MOVL      JOB_LENGTH, R0      : 1574
      14 AE      50 D0 00017      BEQL      3$
      10 AE      50 D0 00017      MOVL      R0, DESC      : 1577
      14 AE      B0 A4 9E 0001B      MOVAB      JOB_BUFFER, DESC+4      : 1578
      10 AE      10 AE D5 00020 1$:      TSTL      DESC      : 1579
      14 AE      11 15 00023      BLEQ      2$
      50      14 AE      10 AE C1 00025      ADDL3      DESC, DESC+4, R0      : 1581
      20 FF      A0 91 0002B      CMPB      -1(R0), #32
      10 AE      05 12 0002F      BNEQ      2$
      10 AE      D7 00031      DECL      DESC      : 1582
      10 AE      EA 11 00034      BRB      1$      : 1579
      04 6E      03 D0 00036 2$:      MOVL      #3, MSGVEC      : 1584
      08 AE 00000000G 8F D0 00039      MOVL      #INPSMB$ JOBCARD, MSGVEC+4      : 1585
      0C AE      01 D0 00041      MOVL      #1, MSGVEC+8      : 1586
      10 AE      AE 9E 00045      MOVAB      DESC, MSGVEC+12      : 1587
      10 AE      7E 7C 0004A      CLRQ      -(SP)      : 1588
      10 AE      64 DD 0004C      PUSHL      PUTMSG_ACTION_ROUTINE
      0C AE      9F 0004E      PUSHAB     MSGVEC
      63      04 FB 00051      CALLS      #4, SYSS$PUTMSG
      52      04 AC D0 00054 3$:      MOVL      SIG, R2      : 1595
      62      02 C2 00058      SUBL2      #2, (R2)      : 1596
      7E 7C 0005B      CLRQ      -(SP)
      64 DD 0005D      PUSHL      PUTMSG_ACTION_ROUTINE
      52 DD 0005F      PUSHL      R2
      04 FB 00061      CALLS      #4, SYSS$PUTMSG
      04 03      00 ED 00064      CMPZV      #0, #3, 4(R2), #4      : 1601
      10 12 0006A      BNEQ      4$
      7E      04 A2 10000000 8F C9 0006C      BISL3      #268435456, 4(R2), -(SP)      : 1603
      00      01 FB 00075      CALLS      #1, SYS$EXIT
      50      01 D0 0007C 4$:      MOVL      #1, R0      : 1607
      04 0007F      RET
```

INPSMB
V04-000

Input symbiont

1 9
16-Sep-1984 01:43:25
14-Sep-1984 12:35:25

VAX-11 Bliss-32 V4.0-742
[INPSMB.SRC]INPSMB.B32;1

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; Routine Size: 128 bytes, Routine Base: CODE + 0BF6


```
: 1511
: 1512
: 1513
: 1514
: 1515
: 1516
: 1517
: 1518
: 1519
: 1520
: 1521
: 1522
: 1523
: 1524
: 1525
: 1526
: 1527
: 1528

P 1608 1 $INIT_STATE(DOLLAR_STATES, DOLLAR_KEYS);
P 1609 1 $STATE(
1610 1 ('$', TPAS_EXIT));
1611 1
1612 1
1613 1 $INIT_STATE(JOB_STATES, JOB_KEYS);
P 1614 1 $STATE(
1615 1 ('JOB', TPAS_EXIT));
1616 1
1617 1
1618 1 $INIT_STATE(E0J_STATES, E0J_KEYS);
P 1619 1 $STATE(
1620 1 ('E0J', TPAS_EXIT));
1621 1
1622 1
1623 1 $INIT_STATE(PASSWORD_STATES, PASSWORD_KEYS);
P 1624 1 $STATE(
1625 1 ('PASSWORD', TPAS_EXIT));
```

: 1530
: 1531

```
1626 1 END
1627 0 ELUDOM
```

K 9
16-Sep-1984 01:43:25
14-Sep-1984 12:35:25

VAX-11 Bliss-32 V4.0-742
[INPSMB.SRC]INPSMB.B32:1

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```

.PSECT _LIB$KEY1$,NOWRT, SHR, PIC,1
00000 ;TPASKEYSTO
U.5: .BLKB 0
42 4F 4A 00000 ;TPASKEYST
U.7: .ASCII \JOB\
FF 00003 ;TPASKEYST
FF 00004 ;TPASKEYFILL
U.10: .BYTE -1
00005 ;TPASKEYSTO
U.12: .BLKB 0
4A 4F 45 00005 ;TPASKEYST
U.14: .ASCII \EOJ\
FF 00008 ;TPASKEYST
FF 00009 ;TPASKEYFILL
U.17: .BYTE -1
0000A ;TPASKEYSTO
U.19: .BLKB 0
44 52 4F 57 53 53 41 50 0000A ;TPASKEYST
U.21: .ASCII \PASSWORD\
FF 00012 ;TPASKEYST
FF 00013 ;TPASKEYFILL
U.24: .BYTE -1

.PSECT _LIB$STATES$,NOWRT, SHR, PIC,1
00000 DOLLAR_STATES::
. BLKB 0
1424 00000 ;TPASTYPE
U.2: .WORD 5156
FFFF 00002 ;TPASTARGET
U.3: .WORD -1
00004 JOB_STATES::
. BLKB 0
1500 00004 ;TPASTYPE
U.8: .WORD 5376
FFFF 00006 ;TPASTARGET
U.9: .WORD -1
00008 EOJ_STATES::
. BLKB 0
1500 00008 ;TPASTYPE
U.15: .WORD 5376
FFFF 0000A ;TPASTARGET
U.16: .WORD -1
0000C PASSWORD_STATES::
. BLKB 0
1500 0000C ;TPASTYPE
U.22: .WORD 5376
FFFF 0000E ;TPASTARGET
U.23: .WORD -1

.PSECT _LIB$KEY0$,NOWRT, SHR, PIC,1

```



```
00000 DOLLAR_KEYS::
00000 ;TPASKEY0 .BLKB 0
00000 U.1: .BLKB 0
00000 JOB_KEYS::
00000 ;TPASKEY0 .BLKB 0
00000 U.4: .BLKB 0
0000* 00000 ;TPASKEY
00002 U.6: .WORD <U.5-U.4>
00004 EOJ_KEYS::
00004 ;TPASKEY0 .BLKB 0
00004 U.11: .BLKB 0
0000* 00004 ;TPASKEY
00006 U.13: .WORD <U.12-U.11>
00008 PASSWORD_KEYS::
00008 ;TPASKEY0 .BLKB 0
00008 U.18: .BLKB 0
0000* 00008 ;TPASKEY
00020 U.20: .WORD <U.19-U.18>
```

.EXTRN LIB\$SIGNAL

PSECT SUMMARY

Name	Bytes	Attributes
DATA	1408	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
CODE	3190	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
_LIB\$KEY0\$	10	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(1)
_LIB\$STATES	16	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(1)
_LIB\$KEY1\$	20	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(1)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	214	1	1000	00:01.9
_\$255\$DUA28:[SYSLIB]TPAMAC.L32;1	42	19	45	14	00:00.2

```
: Information: 1
: Warnings: 0
: Errors: 0
```

Input symbiont

M 9
16-Sep-1984 01:43:25
14-Sep-1984 12:35:25

VAX-11 Bliss-32 V4.0-742
[INPSMB.SRC]INPSMB.B32;1

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```

;                                     COMMAND QUALIFIERS
;      BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:INPSMB/OBJ=OBJ$:INPSMB MSRC$:INPSMB/UPDATE=(ENHS$:INPSMB)
; Size:                2736 code + 1908 data bytes
; Run Time:            00:59.0
; Elapsed Time:        02:02.2
; Lines/CPU Min:       1654
; Lexemes/CPU-Min:    33073
; Memory Used:         411 pages
; Compilation Complete

```

[illegible]

0188 AH-BT13A-SE
VAX/VMS V4.0

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INPSMB
MAP

INSDEF
SQL

INPSMBMSG
LIS

RSXLBDF
SQL

INSCREATE
LIS

INITIO
LIS

INSTAL

INSTALLS
MAP

INSCMD
CLD

INSPREFIX
REQ

INPSMBCLD
CLD

INPSMB
LIS

INSOLDCMD
CLD

INTUOL
LIS

RDHOME
LIS

INPSMB

INPSMBCLD
LIS

INSCMD
LIS